

**QUALITY ASSURANCE AND QUALITY CONTROL FOR
TOTAL DISSOLVED GAS MONITORING -
LOWER SNAKE RIVER, WASHINGTON;
CLEARWATER RIVER, IDAHO;
AND COLUMBIA RIVER, OREGON AND WASHINGTON
WATER YEAR 2001**

Authors

Russell D. Heaton III
Timothy Seiple
Phillip Fishella
and
Thomas D. Miller II

Appendix F
Hourly Operations Reports

March 2002

U.S. Army Corps of Engineers
Walla Walla District

31 DEC 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

31 DEC 2001

	DWORSHAK			STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.40	0.00	105.01	?UNDEF	?UNDEF	000.00	14.00	0.00	097.52	098.02	13.00	0.00	?UNDEF	?UNDEF
2	1.40	0.00	104.99	?UNDEF	?UNDEF	000.00	13.00	0.00	097.54	098.03	12.90	0.00	?UNDEF	?UNDEF
3	1.40	0.00	104.98	?UNDEF	?UNDEF	000.00	13.30	0.00	097.54	098.05	12.60	0.00	?UNDEF	?UNDEF
4	1.40	0.00	105.16	?UNDEF	?UNDEF	000.00	13.00	0.00	097.40	098.05	12.60	0.00	?UNDEF	?UNDEF
5	1.40	0.00	105.28	?UNDEF	?UNDEF	000.00	13.00	0.00	097.35	098.12	12.60	0.00	?UNDEF	?UNDEF
6	1.40	0.00	105.25	?UNDEF	?UNDEF	000.00	13.20	0.00	097.27	098.04	12.50	0.00	?UNDEF	?UNDEF
7	1.40	0.00	105.00	?UNDEF	?UNDEF	000.00	18.90	0.00	097.18	097.81	12.90	0.00	?UNDEF	?UNDEF
8	1.40	0.00	104.93	?UNDEF	?UNDEF	000.00	19.70	0.00	097.08	097.69	19.00	0.00	?UNDEF	?UNDEF
9	1.50	0.00	104.76	?UNDEF	?UNDEF	000.00	19.40	0.00	097.02	097.60	19.30	0.00	?UNDEF	?UNDEF
10	1.40	0.00	104.98	?UNDEF	?UNDEF	000.00	19.40	0.00	097.01	097.64	19.30	0.00	?UNDEF	?UNDEF
11	1.40	0.00	105.25	?UNDEF	?UNDEF	000.00	19.40	0.00	097.03	097.79	19.40	0.00	?UNDEF	?UNDEF
12	1.40	0.00	105.86	?UNDEF	?UNDEF	000.00	19.40	0.00	096.99	097.78	19.70	0.00	?UNDEF	?UNDEF
13	1.40	0.00	105.99	?UNDEF	?UNDEF	000.00	19.70	0.00	096.94	097.74	19.30	0.00	?UNDEF	?UNDEF
14	1.40	0.00	105.89	?UNDEF	?UNDEF	000.00	19.40	0.00	097.06	097.71	20.80	0.00	?UNDEF	?UNDEF
15	1.40	0.00	105.63	?UNDEF	?UNDEF	000.00	19.40	0.00	096.99	097.65	20.80	0.00	?UNDEF	?UNDEF
16	1.40	0.00	105.39	?UNDEF	?UNDEF	000.00	19.40	0.00	097.01	097.63	20.80	0.00	?UNDEF	?UNDEF
17	1.40	0.00	104.96	?UNDEF	?UNDEF	000.00	19.60	0.00	096.95	097.58	21.20	0.00	?UNDEF	?UNDEF
18	1.40	0.00	104.67	?UNDEF	?UNDEF	000.00	16.40	0.00	096.97	097.46	18.50	0.00	?UNDEF	?UNDEF
19	1.40	0.00	104.96	?UNDEF	?UNDEF	000.00	16.20	0.00	096.76	097.37	18.50	0.00	?UNDEF	?UNDEF
20	1.40	0.00	104.82	?UNDEF	?UNDEF	000.00	16.20	0.00	096.75	097.36	18.10	0.00	?UNDEF	?UNDEF
21	1.40	0.00	104.79	?UNDEF	?UNDEF	000.00	16.40	0.00	096.75	097.38	17.60	0.00	?UNDEF	?UNDEF
22	1.40	0.00	104.54	?UNDEF	?UNDEF	000.00	16.50	0.00	096.76	097.36	16.90	0.00	?UNDEF	?UNDEF
23	1.40	0.00	104.69	?UNDEF	?UNDEF	000.00	13.10	0.00	096.75	097.25	12.60	0.00	?UNDEF	?UNDEF
24	1.40	0.00	104.78	?UNDEF	?UNDEF	000.00	13.00	0.00	096.72	097.33	12.20	0.00	?UNDEF	?UNDEF
	LOWER MONUMENTAL			ICE HARBOR				MCNARY				PASCO		
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	14.10	0.00	?UNDEF	?UNDEF	12.60	0.00	095.54	096.44	85.60	0.00	096.14	096.27	095.68	096.48
2	13.70	0.00	?UNDEF	?UNDEF	12.30	0.00	095.52	096.36	70.70	0.00	096.20	096.21	095.63	096.43
3	13.70	0.00	?UNDEF	?UNDEF	10.60	0.00	095.48	096.37	70.20	0.00	096.16	096.09	095.61	096.41
4	13.70	0.00	?UNDEF	?UNDEF	10.30	0.00	095.48	096.36	70.90	0.00	096.16	096.05	095.56	096.40
5	13.80	0.00	?UNDEF	?UNDEF	10.30	0.00	095.45	096.35	87.10	0.00	095.99	096.02	095.67	096.28
6	13.70	0.00	?UNDEF	?UNDEF	10.40	0.00	095.40	096.28	90.80	0.00	095.82	095.85	095.74	096.22
7	14.10	0.00	?UNDEF	?UNDEF	12.50	0.00	095.34	096.23	119.50	0.00	095.80	095.80	095.69	096.16
8	19.70	0.00	?UNDEF	?UNDEF	13.40	0.00	095.28	096.16	115.70	0.00	095.72	095.74	095.52	096.09
9	20.00	0.00	?UNDEF	?UNDEF	20.40	0.00	095.08	096.13	112.70	0.00	095.75	095.65	095.42	095.88
10	20.00	0.00	?UNDEF	?UNDEF	20.40	0.00	095.06	096.12	113.40	0.00	095.74	095.66	095.44	095.87
11	19.90	0.00	?UNDEF	?UNDEF	20.20	0.00	095.03	096.38	112.80	0.00	095.74	095.64	095.55	095.87
12	19.80	0.00	?UNDEF	?UNDEF	20.30	0.00	095.01	096.22	112.00	0.00	095.73	095.61	095.39	095.83
13	20.20	0.00	?UNDEF	?UNDEF	20.80	0.00	095.01	096.14	95.10	0.00	095.85	095.60	095.54	095.83
14	21.10	0.00	?UNDEF	?UNDEF	21.70	0.00	094.94	096.02	92.50	0.00	095.81	095.70	095.49	095.92
15	21.20	0.00	?UNDEF	?UNDEF	21.90	0.00	094.97	095.99	94.40	0.00	095.81	095.72	095.50	095.93
16	21.30	0.00	?UNDEF	?UNDEF	21.80	0.00	094.94	095.98	93.80	0.00	095.81	095.84	095.49	096.03
17	21.30	0.00	?UNDEF	?UNDEF	21.90	0.00	094.96	095.95	94.80	0.00	095.69	095.68	095.37	096.04
18	21.20	0.00	?UNDEF	?UNDEF	26.40	0.00	094.87	095.84	104.60	0.00	095.60	095.61	095.13	096.08
19	21.50	0.00	?UNDEF	?UNDEF	24.50	0.00	094.84	095.68	98.90	0.00	095.56	095.61	095.24	096.03
20	20.60	0.00	?UNDEF	?UNDEF	24.30	0.00	094.85	095.85	91.10	0.00	095.61	095.65	095.29	096.06
21	21.00	0.00	?UNDEF	?UNDEF	24.30	0.00	094.83	095.88	96.30	0.00	095.59	095.65	095.16	096.01
22	21.60	0.00	?UNDEF	?UNDEF	23.50	0.00	094.83	095.84	103.90	0.00	095.60	095.65	095.15	096.06
23	14.00	0.00	?UNDEF	?UNDEF	12.40	0.00	094.80	095.67	87.00	0.00	095.53	095.56	094.93	095.97
24	13.80	0.00	?UNDEF	?UNDEF	12.40	0.00	094.80	095.70	101.40	0.00	095.64	095.55	095.08	095.97

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WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

30 DEC 2001

	DWRSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.40	0.00	104.80	?UNDEF	?UNDEF	000.00	12.00	0.00	096.77	097.54	12.60	0.00	?UNDEF	?UNDEF
2	1.40	0.00	104.65	?UNDEF	?UNDEF	000.00	12.30	0.00	096.74	097.53	12.70	0.00	?UNDEF	?UNDEF
3	1.40	0.00	104.48	?UNDEF	?UNDEF	000.00	11.80	0.00	096.77	097.54	12.80	0.00	?UNDEF	?UNDEF
4	1.40	0.00	104.76	?UNDEF	?UNDEF	000.00	11.80	0.00	096.89	097.51	12.60	0.00	?UNDEF	?UNDEF
5	1.40	0.00	104.67	?UNDEF	?UNDEF	000.00	11.70	0.00	096.92	097.55	13.00	0.00	?UNDEF	?UNDEF
6	1.40	0.00	104.50	?UNDEF	?UNDEF	000.00	11.40	0.00	096.98	097.59	12.50	0.00	?UNDEF	?UNDEF
7	1.40	0.00	104.67	?UNDEF	?UNDEF	000.00	11.70	0.00	096.94	097.54	12.30	0.00	?UNDEF	?UNDEF
8	1.40	0.00	104.90	?UNDEF	?UNDEF	000.00	11.50	0.00	096.90	097.54	12.50	0.00	?UNDEF	?UNDEF
9	1.40	0.00	105.17	?UNDEF	?UNDEF	000.00	18.80	0.00	096.89	097.68	16.50	0.00	?UNDEF	?UNDEF
10	1.40	0.00	105.59	?UNDEF	?UNDEF	000.00	19.30	0.00	096.90	097.67	17.00	0.00	?UNDEF	?UNDEF
11	1.40	0.00	105.79	?UNDEF	?UNDEF	000.00	19.30	0.00	097.01	097.75	16.70	0.00	?UNDEF	?UNDEF
12	1.40	0.00	106.02	?UNDEF	?UNDEF	000.00	19.70	0.00	097.08	097.85	16.70	0.00	?UNDEF	?UNDEF
13	1.40	0.00	106.08	?UNDEF	?UNDEF	000.00	19.40	0.00	097.24	097.87	18.10	0.00	?UNDEF	?UNDEF
14	1.40	0.00	106.26	?UNDEF	?UNDEF	000.00	19.30	0.00	097.31	097.96	18.10	0.00	?UNDEF	?UNDEF
15	1.40	0.00	106.00	?UNDEF	?UNDEF	000.00	19.30	0.00	097.30	097.93	18.40	0.00	?UNDEF	?UNDEF
16	1.40	0.00	105.81	?UNDEF	?UNDEF	000.00	19.40	0.00	097.43	098.06	18.10	0.00	?UNDEF	?UNDEF
17	1.40	0.00	105.62	?UNDEF	?UNDEF	000.00	19.70	0.00	097.51	098.12	18.10	0.00	?UNDEF	?UNDEF
18	1.40	0.00	105.14	?UNDEF	?UNDEF	000.00	19.30	0.00	097.53	098.03	18.10	0.00	?UNDEF	?UNDEF
19	1.40	0.00	105.62	?UNDEF	?UNDEF	000.00	19.40	0.00	097.54	098.01	18.10	0.00	?UNDEF	?UNDEF
20	1.40	0.00	105.01	?UNDEF	?UNDEF	000.00	19.80	0.00	097.53	098.12	18.40	0.00	?UNDEF	?UNDEF
21	1.40	0.00	104.87	?UNDEF	?UNDEF	000.00	19.80	0.00	097.52	098.15	18.10	0.00	?UNDEF	?UNDEF
22	1.40	0.00	104.86	?UNDEF	?UNDEF	000.00	20.10	0.00	097.52	098.05	18.10	0.00	?UNDEF	?UNDEF
23	1.40	0.00	105.01	?UNDEF	?UNDEF	000.00	19.80	0.00	097.52	097.99	18.10	0.00	?UNDEF	?UNDEF
24	1.40	0.00	105.14	?UNDEF	?UNDEF	000.00	19.70	0.00	097.52	097.98	17.90	0.00	?UNDEF	?UNDEF
	LOWER MONUMENTAL			ICE HARBOR			MCNARY			PASCO				
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS OR FB	%SAT. TAILW.	GAS % SAT	
1	13.60	0.00	?UNDEF	?UNDEF	12.50	0.00	095.21	095.98	92.10	0.00	095.68	095.72	095.50	095.74
2	13.70	0.00	?UNDEF	?UNDEF	12.30	0.00	095.18	095.90	93.20	0.00	095.65	095.70	095.34	095.68
3	13.70	0.00	?UNDEF	?UNDEF	12.20	0.00	095.01	096.05	94.00	0.00	095.64	095.66	095.28	095.70
4	13.70	0.00	?UNDEF	?UNDEF	12.10	0.00	095.11	096.11	112.20	0.00	095.73	095.76	095.40	095.76
5	13.70	0.00	?UNDEF	?UNDEF	13.80	0.00	095.16	096.16	113.90	0.00	095.79	095.78	095.29	095.80
6	13.80	0.00	?UNDEF	?UNDEF	12.00	0.00	095.10	095.99	113.00	0.00	095.73	095.64	095.28	095.63
7	13.60	0.00	?UNDEF	?UNDEF	12.00	0.00	095.09	095.95	113.10	0.00	095.70	095.61	095.27	095.75
8	13.80	0.00	?UNDEF	?UNDEF	12.00	0.00	095.11	095.98	113.10	0.00	095.71	095.64	095.28	095.65
9	17.90	0.00	?UNDEF	?UNDEF	12.20	0.00	095.12	096.03	113.50	0.00	095.57	095.64	095.27	095.66
10	18.10	0.00	?UNDEF	?UNDEF	20.00	0.00	095.14	096.14	112.80	0.00	095.76	095.77	095.29	095.66
11	18.10	0.00	?UNDEF	?UNDEF	20.30	0.00	095.15	096.34	122.90	0.00	095.87	095.78	095.45	095.79
12	18.30	0.00	?UNDEF	?UNDEF	19.90	0.00	095.18	096.36	122.20	0.00	095.93	095.85	095.65	095.81
13	19.70	0.00	?UNDEF	?UNDEF	19.90	0.00	095.28	096.40	123.40	0.00	096.12	095.92	095.69	095.90
14	19.70	0.00	?UNDEF	?UNDEF	19.90	0.00	095.29	096.33	113.80	0.00	096.32	095.94	095.74	096.11
15	19.70	0.00	?UNDEF	?UNDEF	19.90	0.00	095.33	096.35	113.30	0.00	096.40	096.17	095.79	096.14
16	19.70	0.00	?UNDEF	?UNDEF	20.30	0.00	095.43	096.44	113.90	0.00	096.41	096.21	095.72	096.33
17	19.80	0.00	?UNDEF	?UNDEF	20.00	0.00	095.48	096.47	114.50	0.00	096.33	096.25	095.76	096.37
18	20.00	0.00	?UNDEF	?UNDEF	20.10	0.00	095.47	096.35	113.70	0.00	096.20	096.23	095.75	096.53
19	19.70	0.00	?UNDEF	?UNDEF	20.00	0.00	095.53	096.37	113.30	0.00	096.24	096.30	095.79	096.55
20	19.70	0.00	?UNDEF	?UNDEF	20.00	0.00	095.50	096.36	112.20	0.00	096.21	096.23	095.80	096.54
21	19.70	0.00	?UNDEF	?UNDEF	20.30	0.00	095.53	096.37	99.40	0.00	096.37	096.27	095.79	096.59
22	19.60	0.00	?UNDEF	?UNDEF	20.00	0.00	095.50	096.42	88.90	0.00	096.38	096.27	095.67	096.59
23	19.40	0.00	?UNDEF	?UNDEF	20.00	0.00	095.55	096.40	86.50	0.00	096.26	096.30	095.71	096.60
24	19.30	0.00	?UNDEF	?UNDEF	19.90	0.00	095.59	096.47	88.00	0.00	096.30	096.30	095.84	096.60

29 DEC 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

29 DEC 2001

	DWRSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.40	0.00	105.11	?UNDEF	?UNDEF	000.00	13.30	0.00	097.32	097.97	13.40	0.00	?UNDEF	?UNDEF
2	1.40	0.00	105.08	?UNDEF	?UNDEF	000.00	13.30	0.00	097.24	097.89	13.30	0.00	?UNDEF	?UNDEF
3	1.40	0.00	105.24	?UNDEF	?UNDEF	000.00	13.30	0.00	097.22	097.70	13.50	0.00	?UNDEF	?UNDEF
4	1.40	0.00	105.27	?UNDEF	?UNDEF	000.00	15.00	0.00	097.04	097.68	14.70	0.00	?UNDEF	?UNDEF
5	1.40	0.00	105.26	?UNDEF	?UNDEF	000.00	13.50	0.00	097.08	097.97	13.30	0.00	?UNDEF	?UNDEF
6	1.40	0.00	105.27	?UNDEF	?UNDEF	000.00	13.30	0.00	097.06	098.09	13.20	0.00	?UNDEF	?UNDEF
7	1.40	0.00	105.08	?UNDEF	?UNDEF	000.00	13.30	0.00	096.89	097.92	13.40	0.00	?UNDEF	?UNDEF
8	1.40	0.00	105.14	?UNDEF	?UNDEF	000.00	16.10	0.00	096.85	097.74	16.50	0.00	?UNDEF	?UNDEF
9	1.40	0.00	104.94	?UNDEF	?UNDEF	000.00	16.40	0.00	096.77	097.67	16.80	0.00	?UNDEF	?UNDEF
10	1.40	0.00	105.21	?UNDEF	?UNDEF	000.00	20.20	0.00	096.75	097.61	22.60	0.00	?UNDEF	?UNDEF
11	1.40	0.00	105.25	?UNDEF	?UNDEF	000.00	26.80	0.00	096.74	097.81	26.80	0.00	?UNDEF	?UNDEF
12	1.40	0.00	105.31	?UNDEF	?UNDEF	000.00	26.80	0.00	096.79	097.81	27.80	0.00	?UNDEF	?UNDEF
13	1.40	0.00	105.62	?UNDEF	?UNDEF	000.00	16.90	0.00	096.80	097.86	18.30	0.00	?UNDEF	?UNDEF
14	1.40	0.00	106.36	?UNDEF	?UNDEF	000.00	16.30	0.00	096.76	097.80	16.70	0.00	?UNDEF	?UNDEF
15	1.40	0.00	106.31	?UNDEF	?UNDEF	000.00	13.90	0.00	096.74	097.65	14.40	0.00	?UNDEF	?UNDEF
16	1.40	0.00	105.76	?UNDEF	?UNDEF	000.00	14.50	0.00	096.55	097.59	14.30	0.00	?UNDEF	?UNDEF
17	1.40	0.00	105.32	?UNDEF	?UNDEF	000.00	26.50	0.00	096.70	097.60	27.20	0.00	?UNDEF	?UNDEF
18	1.40	0.00	105.13	?UNDEF	?UNDEF	000.00	33.50	0.00	096.67	097.59	34.50	0.00	?UNDEF	?UNDEF
19	1.40	0.00	105.32	?UNDEF	?UNDEF	000.00	27.30	0.00	096.63	097.55	29.00	0.00	?UNDEF	?UNDEF
20	1.40	0.00	105.13	?UNDEF	?UNDEF	000.00	26.80	0.00	096.63	097.52	27.80	0.00	?UNDEF	?UNDEF
21	1.40	0.00	104.95	?UNDEF	?UNDEF	000.00	20.40	0.00	096.78	097.48	20.40	0.00	?UNDEF	?UNDEF
22	1.40	0.00	105.03	?UNDEF	?UNDEF	000.00	13.90	0.00	096.70	097.46	19.80	0.00	?UNDEF	?UNDEF
23	1.40	0.00	105.14	?UNDEF	?UNDEF	000.00	12.40	0.00	096.80	097.54	13.10	0.00	?UNDEF	?UNDEF
24	1.40	0.00	104.99	?UNDEF	?UNDEF	000.00	12.00	0.00	096.78	097.54	12.90	0.00	?UNDEF	?UNDEF
	LOWER MONUMENTAL			ICE HARBOR				MCNARY				PASCO		
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	13.70	0.00	?UNDEF	?UNDEF	12.90	0.00	095.77	096.47	85.20	0.00	096.22	096.22	095.75	096.41
2	13.70	0.00	?UNDEF	?UNDEF	13.10	0.00	095.73	096.45	83.30	0.00	096.16	096.21	095.61	096.22
3	13.70	0.00	?UNDEF	?UNDEF	12.80	0.00	095.71	096.48	69.20	0.00	096.19	096.09	095.61	096.24
4	13.70	0.00	?UNDEF	?UNDEF	12.90	0.00	095.73	096.48	71.40	0.00	096.36	096.13	095.77	096.26
5	13.70	0.00	?UNDEF	?UNDEF	12.90	0.00	095.73	096.45	90.70	0.00	096.22	095.99	095.76	096.26
6	13.90	0.00	?UNDEF	?UNDEF	12.80	0.00	095.72	096.47	97.10	0.00	096.20	096.13	095.89	096.13
7	13.70	0.00	?UNDEF	?UNDEF	13.60	0.00	095.56	096.42	126.00	0.00	096.16	095.94	095.85	096.08
8	16.30	0.00	?UNDEF	?UNDEF	19.90	0.00	095.50	096.36	123.30	0.00	096.10	095.89	095.65	096.02
9	18.30	0.00	?UNDEF	?UNDEF	19.90	0.00	095.46	096.36	124.70	0.00	096.05	095.84	095.62	095.85
10	21.00	0.00	?UNDEF	?UNDEF	22.50	0.00	095.43	096.31	116.80	0.00	096.02	095.82	095.60	095.82
11	27.90	0.00	?UNDEF	?UNDEF	28.40	0.00	095.42	096.34	114.40	0.00	096.03	095.80	095.68	095.82
12	29.30	0.00	?UNDEF	?UNDEF	28.80	0.00	095.42	096.33	111.20	0.00	096.03	095.83	095.70	095.83
13	28.90	0.00	?UNDEF	?UNDEF	29.30	0.00	095.46	096.35	102.90	0.00	096.06	095.82	095.70	095.83
14	26.70	0.00	?UNDEF	?UNDEF	30.00	0.00	095.42	096.31	91.70	0.00	096.05	095.95	095.73	095.95
15	19.00	0.00	?UNDEF	?UNDEF	20.70	0.00	095.42	096.30	85.70	0.00	096.15	095.94	095.73	095.92
16	14.60	0.00	?UNDEF	?UNDEF	20.20	0.00	095.38	096.26	84.70	0.00	096.12	095.91	095.68	095.92
17	28.30	0.00	?UNDEF	?UNDEF	27.90	0.00	095.40	096.24	105.30	0.00	095.98	095.88	095.64	095.90
18	30.70	0.00	?UNDEF	?UNDEF	29.30	0.00	095.36	096.24	124.10	0.00	095.97	095.86	095.64	096.02
19	28.60	0.00	?UNDEF	?UNDEF	29.00	0.00	095.35	096.20	122.60	0.00	095.95	095.80	095.45	096.00
20	28.80	0.00	?UNDEF	?UNDEF	28.90	0.00	095.28	096.08	109.90	0.00	095.90	095.81	095.46	095.97
21	28.70	0.00	?UNDEF	?UNDEF	28.90	0.00	095.29	096.04	107.50	0.00	095.90	095.97	095.31	095.96
22	28.60	0.00	?UNDEF	?UNDEF	29.90	0.00	095.27	096.03	95.30	0.00	095.91	095.81	095.46	095.95
23	18.40	0.00	?UNDEF	?UNDEF	19.70	0.00	095.29	096.02	83.00	0.00	095.74	095.76	095.57	095.80
24	14.10	0.00	?UNDEF	?UNDEF	12.60	0.00	095.23	095.98	83.30	0.00	095.70	095.73	095.65	095.80

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	DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR :	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	
1	1.40	0.00	104.94	?UNDEF	?UNDEF	000.00	13.00	0.00	097.64	098.68	13.70	0.00	?UNDEF	?UNDEF	
2	1.40	0.00	104.73	?UNDEF	?UNDEF	000.00	12.90	0.00	097.62	098.52	13.90	0.00	?UNDEF	?UNDEF	
3	1.40	0.00	104.63	?UNDEF	?UNDEF	000.00	12.90	0.00	097.51	098.27	13.60	0.00	?UNDEF	?UNDEF	
4	1.40	0.00	104.60	?UNDEF	?UNDEF	000.00	13.00	0.00	097.43	098.20	13.80	0.00	?UNDEF	?UNDEF	
5	1.40	0.00	104.39	?UNDEF	?UNDEF	000.00	13.20	0.00	097.21	098.13	13.60	0.00	?UNDEF	?UNDEF	
6	1.40	0.00	104.42	?UNDEF	?UNDEF	000.00	13.10	0.00	097.09	097.98	13.80	0.00	?UNDEF	?UNDEF	
7	1.40	0.00	104.59	?UNDEF	?UNDEF	000.00	13.30	0.00	097.00	097.93	13.70	0.00	?UNDEF	?UNDEF	
8	1.40	0.00	104.46	?UNDEF	?UNDEF	000.00	18.20	0.00	096.96	097.70	15.60	0.00	?UNDEF	?UNDEF	
9	1.40	0.00	104.54	?UNDEF	?UNDEF	000.00	18.60	0.00	096.88	097.70	19.00	0.00	?UNDEF	?UNDEF	
10	1.40	0.00	104.90	?UNDEF	?UNDEF	000.00	18.90	0.00	097.04	097.96	19.10	0.00	?UNDEF	?UNDEF	
11	1.40	0.00	105.22	?UNDEF	?UNDEF	000.00	18.50	0.00	097.12	098.13	15.40	0.00	?UNDEF	?UNDEF	
12	1.40	0.00	105.41	?UNDEF	?UNDEF	000.00	18.60	0.00	097.17	098.32	15.50	0.00	?UNDEF	?UNDEF	
13	1.40	0.00	105.48	?UNDEF	?UNDEF	000.00	18.60	0.00	097.25	098.58	15.10	0.00	?UNDEF	?UNDEF	
14	1.40	0.00	105.52	?UNDEF	?UNDEF	000.00	18.80	0.00	097.29	098.61	15.20	0.00	?UNDEF	?UNDEF	
15	1.40	0.00	105.54	?UNDEF	?UNDEF	000.00	18.60	0.00	097.29	098.47	15.20	0.00	?UNDEF	?UNDEF	
16	1.40	0.00	105.60	?UNDEF	?UNDEF	000.00	18.60	0.00	097.28	098.18	15.30	0.00	?UNDEF	?UNDEF	
17	1.40	0.00	105.35	?UNDEF	?UNDEF	000.00	20.50	0.00	097.41	098.03	21.00	0.00	?UNDEF	?UNDEF	
18	1.40	0.00	105.04	?UNDEF	?UNDEF	000.00	20.70	0.00	097.24	097.85	20.90	0.00	?UNDEF	?UNDEF	
19	1.40	0.00	105.35	?UNDEF	?UNDEF	000.00	20.60	0.00	097.25	097.86	20.80	0.00	?UNDEF	?UNDEF	
20	1.40	0.00	105.00	?UNDEF	?UNDEF	000.00	20.70	0.00	097.29	097.75	20.50	0.00	?UNDEF	?UNDEF	
21	1.40	0.00	105.27	?UNDEF	?UNDEF	000.00	15.00	0.00	097.34	097.94	13.70	0.00	?UNDEF	?UNDEF	
22	1.40	0.00	105.26	?UNDEF	?UNDEF	000.00	13.00	0.00	097.32	098.51	13.60	0.00	?UNDEF	?UNDEF	
23	1.40	0.00	105.27	?UNDEF	?UNDEF	000.00	13.00	0.00	097.34	098.37	13.30	0.00	?UNDEF	?UNDEF	
24	1.40	0.00	105.11	?UNDEF	?UNDEF	000.00	13.30	0.00	097.30	098.13	13.30	0.00	?UNDEF	?UNDEF	
	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR :	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT	
1	13.80	0.00	?UNDEF	?UNDEF	12.70	0.00	096.07	096.98	97.90	0.00	096.31	096.42	095.94	096.77	
2	13.80	0.00	?UNDEF	?UNDEF	14.20	0.00	096.01	096.88	96.50	0.00	096.25	096.18	095.84	096.65	
3	13.70	0.00	?UNDEF	?UNDEF	12.80	0.00	096.09	096.86	93.80	0.00	096.22	096.18	095.81	096.52	
4	13.80	0.00	?UNDEF	?UNDEF	12.70	0.00	096.07	096.82	112.20	0.00	096.18	096.11	095.76	096.47	
5	13.60	0.00	?UNDEF	?UNDEF	13.10	0.00	095.86	096.75	124.60	0.00	096.13	096.07	095.72	096.26	
6	13.60	0.00	?UNDEF	?UNDEF	12.70	0.00	095.98	096.70	149.20	0.00	096.08	096.03	095.67	096.26	
7	13.60	0.00	?UNDEF	?UNDEF	12.70	0.00	095.78	096.62	150.80	0.00	096.05	096.14	095.76	096.05	
8	13.80	0.00	?UNDEF	?UNDEF	12.70	0.00	095.72	096.61	152.00	0.00	096.21	096.03	095.79	096.04	
9	18.70	0.00	?UNDEF	?UNDEF	12.70	0.00	095.73	096.62	152.00	0.00	096.14	095.96	095.85	096.02	
10	21.20	0.00	?UNDEF	?UNDEF	12.60	0.00	095.72	096.70	137.70	0.00	096.17	095.97	095.87	096.00	
11	20.80	0.00	?UNDEF	?UNDEF	12.70	0.00	095.76	096.75	137.60	0.00	096.41	096.16	096.06	096.05	
12	20.90	0.00	?UNDEF	?UNDEF	12.60	0.00	095.87	096.84	121.50	0.00	096.50	096.27	096.16	096.13	
13	22.50	0.00	?UNDEF	?UNDEF	12.60	0.00	096.02	097.05	121.30	0.00	096.52	096.34	096.21	096.28	
14	21.00	0.00	?UNDEF	?UNDEF	12.60	0.00	095.99	096.95	122.00	0.00	096.46	096.36	096.16	096.39	
15	21.10	0.00	?UNDEF	?UNDEF	12.60	0.00	095.95	096.82	122.40	0.00	096.45	096.31	096.01	096.47	
16	21.50	0.00	?UNDEF	?UNDEF	13.20	0.00	095.93	096.64	122.60	0.00	096.37	096.33	095.94	096.42	
17	21.20	0.00	?UNDEF	?UNDEF	20.50	0.00	095.93	096.64	123.80	0.00	096.28	096.35	095.86	096.57	
18	21.20	0.00	?UNDEF	?UNDEF	27.00	0.00	095.88	096.65	137.30	0.00	096.29	096.51	095.87	096.59	
19	21.10	0.00	?UNDEF	?UNDEF	25.70	0.00	095.90	096.66	130.20	0.00	096.43	096.48	095.86	096.57	
20	20.90	0.00	?UNDEF	?UNDEF	25.80	0.00	095.79	096.68	124.30	0.00	096.48	096.52	095.90	096.62	
21	14.10	0.00	?UNDEF	?UNDEF	25.60	0.00	095.83	096.66	95.60	0.00	096.34	096.52	095.87	096.60	
22	13.70	0.00	?UNDEF	?UNDEF	13.80	0.00	095.84	096.73	93.20	0.00	096.31	096.52	095.89	096.67	
23	13.90	0.00	?UNDEF	?UNDEF	12.90	0.00	095.79	096.53	89.50	0.00	096.28	096.28	095.85	096.50	
24	13.70	0.00	?UNDEF	?UNDEF	12.80	0.00	095.77	096.51	85.90	0.00	096.28	096.30	095.81	096.50	

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	DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	
1	1.40	0.00	102.65	?UNDEF	?UNDEF	000.00	15.30	0.00	096.22	097.21	13.50	0.00	?UNDEF	?UNDEF	
2	1.40	0.00	103.96	?UNDEF	?UNDEF	000.00	13.40	0.00	096.23	097.23	13.50	0.00	?UNDEF	?UNDEF	
3	1.40	0.00	103.47	?UNDEF	?UNDEF	000.00	.50	0.00	096.26	097.31	12.70	0.00	?UNDEF	?UNDEF	
4	1.40	0.00	103.10	?UNDEF	?UNDEF	000.00	.10	0.00	096.30	097.33	12.30	0.00	?UNDEF	?UNDEF	
5	1.40	0.00	103.14	?UNDEF	?UNDEF	000.00	11.50	0.00	096.46	097.49	12.30	0.00	?UNDEF	?UNDEF	
6	1.40	0.00	103.74	?UNDEF	?UNDEF	000.00	17.00	0.00	096.31	097.46	14.20	0.00	?UNDEF	?UNDEF	
7	1.40	0.00	103.99	?UNDEF	?UNDEF	000.00	18.90	0.00	096.29	097.46	16.50	0.00	?UNDEF	?UNDEF	
8	1.40	0.00	103.97	?UNDEF	?UNDEF	000.00	19.30	0.00	096.29	097.45	19.20	0.00	?UNDEF	?UNDEF	
9	1.40	0.00	104.29	?UNDEF	?UNDEF	000.00	19.60	0.00	096.41	097.39	20.90	0.00	?UNDEF	?UNDEF	
10	1.40	0.00	104.58	?UNDEF	?UNDEF	000.00	19.20	0.00	096.43	097.48	19.60	0.00	?UNDEF	?UNDEF	
11	1.40	0.00	105.03	?UNDEF	?UNDEF	000.00	19.10	0.00	096.71	097.79	19.90	0.00	?UNDEF	?UNDEF	
12	1.40	0.00	105.33	?UNDEF	?UNDEF	000.00	19.00	0.00	096.81	097.68	19.60	0.00	?UNDEF	?UNDEF	
13	1.40	0.00	105.49	?UNDEF	?UNDEF	000.00	19.00	0.00	096.97	097.98	19.70	0.00	?UNDEF	?UNDEF	
14	1.40	0.00	105.59	?UNDEF	?UNDEF	000.00	21.20	0.00	097.10	098.26	19.70	0.00	?UNDEF	?UNDEF	
15	1.40	0.00	105.43	?UNDEF	?UNDEF	000.00	19.00	0.00	097.29	098.33	19.80	0.00	?UNDEF	?UNDEF	
16	1.40	0.00	105.26	?UNDEF	?UNDEF	000.00	19.10	0.00	097.34	098.34	20.10	0.00	?UNDEF	?UNDEF	
17	1.40	0.00	105.01	?UNDEF	?UNDEF	000.00	20.70	0.00	097.39	098.28	19.70	0.00	?UNDEF	?UNDEF	
18	1.40	0.00	104.94	?UNDEF	?UNDEF	000.00	18.70	0.00	097.43	098.47	17.20	0.00	?UNDEF	?UNDEF	
19	1.40	0.00	105.01	?UNDEF	?UNDEF	000.00	18.70	0.00	097.47	098.62	17.10	0.00	?UNDEF	?UNDEF	
20	1.40	0.00	104.80	?UNDEF	?UNDEF	000.00	18.40	0.00	097.42	098.31	17.10	0.00	?UNDEF	?UNDEF	
21	1.40	0.00	104.97	?UNDEF	?UNDEF	000.00	18.30	0.00	097.42	098.31	18.90	0.00	?UNDEF	?UNDEF	
22	1.40	0.00	104.95	?UNDEF	?UNDEF	000.00	18.20	0.00	097.39	098.32	17.10	0.00	?UNDEF	?UNDEF	
23	1.40	0.00	104.95	?UNDEF	?UNDEF	000.00	13.10	0.00	097.53	098.29	13.80	0.00	?UNDEF	?UNDEF	
24	1.40	0.00	105.13	?UNDEF	?UNDEF	000.00	14.70	0.00	097.72	098.58	13.40	0.00	?UNDEF	?UNDEF	
	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT	
1	13.60	0.00	?UNDEF	?UNDEF	9.80	0.00	095.30	096.44	99.80	0.00	095.64	095.83	095.09	096.09	
2	14.00	0.00	?UNDEF	?UNDEF	11.20	0.00	095.28	096.45	94.50	0.00	095.47	095.71	095.10	096.09	
3	13.80	0.00	?UNDEF	?UNDEF	11.20	0.00	095.35	096.38	93.90	0.00	095.56	095.64	095.21	096.00	
4	13.70	0.00	?UNDEF	?UNDEF	9.60	0.00	095.33	096.47	94.50	0.00	095.62	095.82	095.19	096.06	
5	13.70	0.00	?UNDEF	?UNDEF	9.60	0.00	095.50	096.50	112.70	0.00	095.67	095.87	095.28	096.11	
6	13.90	0.00	?UNDEF	?UNDEF	10.10	0.00	095.48	096.51	120.00	0.00	095.64	095.87	095.23	096.18	
7	15.60	0.00	?UNDEF	?UNDEF	12.20	0.00	095.50	096.67	135.00	0.00	095.58	095.92	095.31	096.13	
8	15.80	0.00	?UNDEF	?UNDEF	12.30	0.00	095.40	096.60	138.80	0.00	095.73	095.92	095.34	096.19	
9	15.80	0.00	?UNDEF	?UNDEF	12.40	0.00	095.59	096.66	140.10	0.00	095.87	096.03	095.41	096.24	
10	17.40	0.00	?UNDEF	?UNDEF	12.40	0.00	095.52	096.74	143.70	0.00	095.93	096.03	095.54	096.28	
11	15.40	0.00	?UNDEF	?UNDEF	12.40	0.00	095.60	096.80	146.90	0.00	096.10	096.17	095.65	096.39	
12	21.60	0.00	?UNDEF	?UNDEF	12.60	0.00	095.71	096.94	148.00	0.00	096.39	096.12	095.94	096.68	
13	22.40	0.00	?UNDEF	?UNDEF	12.60	0.00	095.88	097.09	145.90	0.00	096.46	096.36	096.00	096.80	
14	19.70	0.00	?UNDEF	?UNDEF	13.70	0.00	095.94	097.10	146.90	0.00	096.55	096.42	096.06	096.96	
15	16.50	0.00	?UNDEF	?UNDEF	12.30	0.00	095.99	097.07	146.80	0.00	096.68	096.48	096.12	097.06	
16	16.80	0.00	?UNDEF	?UNDEF	20.60	0.00	096.11	097.12	147.80	0.00	096.69	096.58	096.12	097.14	
17	14.80	0.00	?UNDEF	?UNDEF	23.10	0.00	096.07	097.37	154.80	0.00	096.60	096.51	096.03	097.15	
18	16.80	0.00	?UNDEF	?UNDEF	24.60	0.00	096.14	097.44	154.40	0.00	096.61	096.55	096.04	097.26	
19	17.30	0.00	?UNDEF	?UNDEF	23.90	0.00	096.13	097.16	151.20	0.00	096.54	096.49	095.96	097.19	
20	13.90	0.00	?UNDEF	?UNDEF	24.00	0.00	096.19	097.22	125.30	0.00	096.61	096.44	095.92	097.16	
21	13.80	0.00	?UNDEF	?UNDEF	24.00	0.00	096.30	097.17	122.80	0.00	096.61	096.59	096.07	097.23	
22	14.00	0.00	?UNDEF	?UNDEF	23.70	0.00	096.37	097.18	122.40	0.00	096.63	096.60	096.08	097.15	
23	13.70	0.00	?UNDEF	?UNDEF	13.90	0.00	096.39	097.23	99.60	0.00	096.66	096.48	096.13	097.16	
24	15.20	0.00	?UNDEF	?UNDEF	12.80	0.00	096.32	097.19	97.50	0.00	096.46	096.52	096.15	097.16	

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	DWRSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.40	0.00	102.95	?UNDEF	?UNDEF	000.00	13.90	0.00	096.06	096.55	14.40	0.00	?UNDEF	?UNDEF
2	1.40	0.00	102.95	?UNDEF	?UNDEF	000.00	13.90	0.00	096.06	096.54	14.00	0.00	?UNDEF	?UNDEF
3	1.40	0.00	103.00	?UNDEF	?UNDEF	000.00	14.20	0.00	096.09	096.41	14.00	0.00	?UNDEF	?UNDEF
4	1.40	0.00	103.05	?UNDEF	?UNDEF	000.00	13.90	0.00	096.12	096.43	14.30	0.00	?UNDEF	?UNDEF
5	1.40	0.00	102.92	?UNDEF	?UNDEF	000.00	14.00	0.00	096.05	096.52	14.20	0.00	?UNDEF	?UNDEF
6	1.40	0.00	102.95	?UNDEF	?UNDEF	000.00	13.90	0.00	096.06	096.42	14.10	0.00	?UNDEF	?UNDEF
7	1.40	0.00	102.97	?UNDEF	?UNDEF	000.00	14.00	0.00	096.07	096.44	14.00	0.00	?UNDEF	?UNDEF
8	1.50	0.00	102.81	?UNDEF	?UNDEF	000.00	15.10	0.00	096.05	096.36	14.70	0.00	?UNDEF	?UNDEF
9	1.40	0.00	102.81	?UNDEF	?UNDEF	000.00	14.80	0.00	096.08	096.42	14.90	0.00	?UNDEF	?UNDEF
10	1.40	0.00	102.95	?UNDEF	?UNDEF	000.00	13.80	0.00	096.05	096.39	14.70	0.00	?UNDEF	?UNDEF
11	1.40	0.00	103.27	?UNDEF	?UNDEF	000.00	13.70	0.00	096.10	096.43	14.80	0.00	?UNDEF	?UNDEF
12	1.40	0.00	103.16	?UNDEF	?UNDEF	000.00	13.70	0.00	096.15	096.74	14.70	0.00	?UNDEF	?UNDEF
13	1.40	0.00	103.05	?UNDEF	?UNDEF	000.00	13.90	0.00	096.19	096.93	14.60	0.00	?UNDEF	?UNDEF
14	1.40	0.00	103.07	?UNDEF	?UNDEF	000.00	13.70	0.00	096.38	096.85	14.80	0.00	?UNDEF	?UNDEF
15	1.40	0.00	103.15	?UNDEF	?UNDEF	000.00	15.40	0.00	096.37	096.82	14.60	0.00	?UNDEF	?UNDEF
16	1.40	0.00	102.71	?UNDEF	?UNDEF	000.00	13.70	0.00	096.32	097.21	14.80	0.00	?UNDEF	?UNDEF
17	1.40	0.00	102.46	?UNDEF	?UNDEF	000.00	14.40	0.00	096.37	097.38	15.10	0.00	?UNDEF	?UNDEF
18	1.40	0.00	102.05	?UNDEF	?UNDEF	000.00	26.70	0.00	096.36	097.27	25.90	0.00	?UNDEF	?UNDEF
19	1.40	0.00	102.46	?UNDEF	?UNDEF	000.00	14.30	0.00	096.35	097.09	16.60	0.00	?UNDEF	?UNDEF
20	1.40	0.00	101.86	?UNDEF	?UNDEF	000.00	13.60	0.00	096.20	096.97	15.60	0.00	?UNDEF	?UNDEF
21	1.40	0.00	101.74	?UNDEF	?UNDEF	000.00	13.80	0.00	096.21	096.94	13.50	0.00	?UNDEF	?UNDEF
22	1.40	0.00	101.61	?UNDEF	?UNDEF	000.00	13.60	0.00	096.24	096.89	13.40	0.00	?UNDEF	?UNDEF
23	1.40	0.00	101.61	?UNDEF	?UNDEF	000.00	13.90	0.00	096.25	096.89	15.00	0.00	?UNDEF	?UNDEF
24	1.40	0.00	101.65	?UNDEF	?UNDEF	000.00	13.70	0.00	096.32	096.92	13.70	0.00	?UNDEF	?UNDEF
	LOWER MONUMENTAL			ICE HARBOR			MCNARY			PASCO				
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	15.50	0.00	?UNDEF	?UNDEF	20.60	0.00	095.16	096.05	74.20	0.00	095.57	095.31	096.11	095.73
2	14.40	0.00	?UNDEF	?UNDEF	12.40	0.00	095.07	095.94	74.10	0.00	095.57	095.34	096.31	095.74
3	14.80	0.00	?UNDEF	?UNDEF	12.40	0.00	095.08	095.95	67.50	0.00	095.55	095.33	096.54	095.74
4	14.70	0.00	?UNDEF	?UNDEF	12.40	0.00	095.11	096.02	92.50	0.00	095.60	095.41	096.61	095.67
5	14.90	0.00	?UNDEF	?UNDEF	12.40	0.00	095.17	096.04	94.70	0.00	095.64	095.28	096.64	095.67
6	15.00	0.00	?UNDEF	?UNDEF	12.50	0.00	095.17	096.07	103.90	0.00	095.49	095.28	096.50	095.70
7	14.70	0.00	?UNDEF	?UNDEF	12.20	0.00	095.16	096.02	110.50	0.00	095.52	095.30	096.36	095.59
8	14.70	0.00	?UNDEF	?UNDEF	12.60	0.00	095.16	096.04	94.40	0.00	095.52	095.16	096.35	095.58
9	15.00	0.00	?UNDEF	?UNDEF	12.50	0.00	095.17	096.03	104.20	0.00	095.42	095.18	096.49	095.57
10	15.00	0.00	?UNDEF	?UNDEF	19.90	0.00	094.99	096.03	108.20	0.00	095.36	095.11	096.58	095.53
11	14.80	0.00	?UNDEF	?UNDEF	20.30	0.00	095.06	096.09	106.70	0.00	095.52	095.33	096.52	095.42
12	14.50	0.00	?UNDEF	?UNDEF	19.80	0.00	095.09	096.43	105.70	0.00	095.59	095.35	096.46	095.64
13	14.70	0.00	?UNDEF	?UNDEF	19.20	0.00	095.16	096.35	105.60	0.00	095.81	095.59	095.98	095.69
14	14.40	0.00	?UNDEF	?UNDEF	12.60	0.00	095.14	096.26	105.30	0.00	095.62	095.52	095.67	095.68
15	14.30	0.00	?UNDEF	?UNDEF	12.80	0.00	095.13	096.13	96.00	0.00	095.80	095.57	095.63	095.81
16	14.40	0.00	?UNDEF	?UNDEF	14.00	0.00	095.18	096.19	95.10	0.00	095.68	095.73	095.63	095.85
17	14.80	0.00	?UNDEF	?UNDEF	12.50	0.00	095.23	096.18	93.10	0.00	095.62	095.69	095.36	095.94
18	27.70	0.00	?UNDEF	?UNDEF	25.30	0.00	095.25	096.22	111.90	0.00	095.68	095.69	095.20	096.02
19	28.30	0.00	?UNDEF	?UNDEF	27.40	0.00	095.18	096.33	114.10	0.00	095.52	095.70	095.23	096.14
20	24.50	0.00	?UNDEF	?UNDEF	27.40	0.00	095.16	096.64	110.20	0.00	095.51	095.70	095.06	096.07
21	18.30	0.00	?UNDEF	?UNDEF	20.80	0.00	095.19	096.27	109.50	0.00	095.51	095.71	095.06	096.10
22	13.60	0.00	?UNDEF	?UNDEF	19.90	0.00	095.20	096.31	109.10	0.00	095.55	095.73	095.11	096.10
23	13.50	0.00	?UNDEF	?UNDEF	12.60	0.00	095.24	096.36	108.80	0.00	095.59	095.75	095.13	096.04
24	15.00	0.00	?UNDEF	?UNDEF	9.80	0.00	095.31	096.43	100.90	0.00	095.65	095.84	095.10	096.04

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WALLA WALLA DISTRICT HYDRO PROJECTS
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	DWRSHAK			STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.40	0.00	101.57	?UNDEF	?UNDEF	000.00	.10	0.00	095.57	095.82	.40	0.00	?UNDEF	?UNDEF
2	1.40	0.00	101.52	?UNDEF	?UNDEF	000.00	.10	0.00	095.55	095.76	.40	0.00	?UNDEF	?UNDEF
3	1.40	0.00	102.59	?UNDEF	?UNDEF	000.00	.10	0.00	095.35	095.71	.40	0.00	?UNDEF	?UNDEF
4	1.40	0.00	102.73	?UNDEF	?UNDEF	000.00	.10	0.00	095.35	095.68	.20	0.00	?UNDEF	?UNDEF
5	1.40	0.00	102.73	?UNDEF	?UNDEF	000.00	1.50	0.00	095.36	095.72	.30	0.00	?UNDEF	?UNDEF
6	1.40	0.00	102.73	?UNDEF	?UNDEF	000.00	26.20	0.00	095.47	096.49	13.90	0.00	?UNDEF	?UNDEF
7	1.40	0.00	102.56	?UNDEF	?UNDEF	000.00	27.40	0.00	095.47	096.46	28.20	0.00	?UNDEF	?UNDEF
8	1.50	0.00	102.39	?UNDEF	?UNDEF	000.00	26.80	0.00	095.47	096.45	27.80	0.00	?UNDEF	?UNDEF
9	1.40	0.00	102.55	?UNDEF	?UNDEF	000.00	26.90	0.00	095.58	096.45	28.00	0.00	?UNDEF	?UNDEF
10	1.40	0.00	102.63	?UNDEF	?UNDEF	000.00	28.60	0.00	095.58	096.54	27.80	0.00	?UNDEF	?UNDEF
11	1.40	0.00	102.89	?UNDEF	?UNDEF	000.00	26.80	0.00	095.58	096.55	27.90	0.00	?UNDEF	?UNDEF
12	1.40	0.00	103.11	?UNDEF	?UNDEF	000.00	27.40	0.00	095.79	096.63	28.40	0.00	?UNDEF	?UNDEF
13	1.40	0.00	103.27	?UNDEF	?UNDEF	000.00	26.90	0.00	095.80	096.55	27.90	0.00	?UNDEF	?UNDEF
14	1.40	0.00	103.27	?UNDEF	?UNDEF	000.00	26.90	0.00	095.81	096.55	27.60	0.00	?UNDEF	?UNDEF
15	1.40	0.00	103.31	?UNDEF	?UNDEF	000.00	25.80	0.00	095.86	096.64	25.40	0.00	?UNDEF	?UNDEF
16	1.40	0.00	103.31	?UNDEF	?UNDEF	000.00	25.60	0.00	095.87	000.00	25.40	0.00	?UNDEF	?UNDEF
17	1.50	0.00	103.07	?UNDEF	?UNDEF	000.00	27.50	0.00	095.92	096.56	28.00	0.00	?UNDEF	?UNDEF
18	1.40	0.00	102.95	?UNDEF	?UNDEF	000.00	27.20	0.00	095.90	096.49	28.00	0.00	?UNDEF	?UNDEF
19	1.40	0.00	103.07	?UNDEF	?UNDEF	000.00	27.10	0.00	095.91	096.43	28.00	0.00	?UNDEF	?UNDEF
20	1.40	0.00	102.74	?UNDEF	?UNDEF	000.00	27.20	0.00	095.96	096.60	28.00	0.00	?UNDEF	?UNDEF
21	1.40	0.00	102.73	?UNDEF	?UNDEF	000.00	27.20	0.00	096.11	096.62	31.90	0.00	?UNDEF	?UNDEF
22	1.40	0.00	102.77	?UNDEF	?UNDEF	000.00	27.70	0.00	095.96	096.45	32.70	0.00	?UNDEF	?UNDEF
23	1.40	0.00	102.94	?UNDEF	?UNDEF	000.00	26.70	0.00	095.98	096.51	31.70	0.00	?UNDEF	?UNDEF
24	1.40	0.00	102.91	?UNDEF	?UNDEF	000.00	18.10	0.00	096.03	096.54	18.90	0.00	?UNDEF	?UNDEF
	LOWER MONUMENTAL			ICE HARBOR				MCNARY				PASCO		
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	15.30	0.00	?UNDEF	?UNDEF	20.60	0.00	095.06	095.93	68.90	0.00	095.15	094.92	095.98	095.46
2	13.70	0.00	?UNDEF	?UNDEF	19.30	0.00	095.05	095.92	73.50	0.00	095.12	094.89	095.94	095.43
3	.60	0.00	?UNDEF	?UNDEF	9.20	0.00	095.02	095.90	75.40	0.00	095.11	094.77	096.08	095.28
4	2.10	0.00	?UNDEF	?UNDEF	.40	0.00	095.07	095.90	76.90	0.00	095.11	094.72	096.21	095.31
5	.60	0.00	?UNDEF	?UNDEF	1.20	0.00	095.07	095.93	78.80	0.00	095.16	094.64	096.23	095.29
6	13.60	0.00	?UNDEF	?UNDEF	12.90	0.00	095.05	095.80	95.40	0.00	095.16	094.80	096.26	095.30
7	26.80	0.00	?UNDEF	?UNDEF	26.80	0.00	095.06	095.77	113.00	0.00	095.13	094.77	096.09	095.30
8	27.90	0.00	?UNDEF	?UNDEF	27.50	0.00	094.86	095.88	120.30	0.00	095.08	094.61	095.82	095.13
9	27.80	0.00	?UNDEF	?UNDEF	27.40	0.00	094.86	095.83	128.70	0.00	095.16	094.70	095.90	095.07
10	28.20	0.00	?UNDEF	?UNDEF	27.80	0.00	094.79	095.70	129.70	0.00	095.18	094.70	095.88	095.03
11	27.70	0.00	?UNDEF	?UNDEF	27.30	0.00	094.86	095.73	131.90	0.00	095.25	094.85	095.94	095.12
12	27.70	0.00	?UNDEF	?UNDEF	27.30	0.00	094.91	095.78	127.90	0.00	095.28	094.89	095.82	095.28
13	27.60	0.00	?UNDEF	?UNDEF	27.30	0.00	094.91	095.80	126.00	0.00	095.30	094.92	095.90	095.31
14	27.60	0.00	?UNDEF	?UNDEF	27.20	0.00	094.94	095.86	122.10	0.00	095.46	095.07	095.90	095.35
15	27.60	0.00	?UNDEF	?UNDEF	25.30	0.00	094.98	095.83	107.70	0.00	095.48	095.11	095.93	095.48
16	28.10	0.00	?UNDEF	?UNDEF	24.60	0.00	095.01	095.83	101.30	0.00	095.39	095.11	096.06	095.49
17	27.70	0.00	?UNDEF	?UNDEF	26.10	0.00	095.03	095.87	119.50	0.00	095.40	095.16	096.10	095.66
18	27.50	0.00	?UNDEF	?UNDEF	26.10	0.00	095.01	095.92	147.90	0.00	095.44	095.21	095.98	095.69
19	27.50	0.00	?UNDEF	?UNDEF	26.50	0.00	095.09	095.94	145.70	0.00	095.59	095.21	095.98	095.72
20	27.90	0.00	?UNDEF	?UNDEF	26.20	0.00	095.08	095.96	136.20	0.00	095.57	095.21	095.89	095.75
21	34.40	0.00	?UNDEF	?UNDEF	31.00	0.00	095.10	095.97	135.40	0.00	095.59	095.22	095.89	095.75
22	34.70	0.00	?UNDEF	?UNDEF	34.30	0.00	095.09	095.96	104.80	0.00	095.58	095.19	095.89	095.72
23	35.30	0.00	?UNDEF	?UNDEF	34.30	0.00	095.11	095.97	77.10	0.00	095.59	095.22	095.87	095.76
24	34.10	0.00	?UNDEF	?UNDEF	33.80	0.00	095.15	096.02	84.30	0.00	095.65	095.28	095.98	095.76

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WALLA WALLA DISTRICT HYDRO PROJECTS
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HOUR:	DWRORSHAK			STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
	TOTAL	SPILL	GAS %SAT	ANATONE	PECK	LEWISTON	TOTAL	SPILL	GAS	%SAT	TOTAL	SPILL	GAS	%SAT.
	DISCH.	KCFS	TAILW.	GAS %SAT	GAS %SAT	GAS %SAT	DISCH	KCFS	FB	TAILW.	DISCH	KCFS	FB	TAILW.
1	1.40	0.00	102.69	?UNDEF	?UNDEF	000.00	14.00	0.00	095.22	095.67	13.80	0.00	?UNDEF	?UNDEF
2	1.40	0.00	102.54	?UNDEF	?UNDEF	000.00	11.90	0.00	095.19	095.68	13.00	0.00	?UNDEF	?UNDEF
3	1.40	0.00	102.69	?UNDEF	?UNDEF	000.00	.20	0.00	095.26	095.56	.40	0.00	?UNDEF	?UNDEF
4	1.40	0.00	102.73	?UNDEF	?UNDEF	000.00	.20	0.00	095.31	095.65	.40	0.00	?UNDEF	?UNDEF
5	1.40	0.00	102.74	?UNDEF	?UNDEF	000.00	.20	0.00	095.31	095.65	.40	0.00	?UNDEF	?UNDEF
6	1.40	0.00	102.84	?UNDEF	?UNDEF	000.00	.90	0.00	095.36	095.82	.50	0.00	?UNDEF	?UNDEF
7	1.40	0.00	102.86	?UNDEF	?UNDEF	000.00	19.70	0.00	095.33	096.08	20.40	0.00	?UNDEF	?UNDEF
8	1.50	0.00	102.70	?UNDEF	?UNDEF	000.00	21.40	0.00	095.45	096.20	21.10	0.00	?UNDEF	?UNDEF
9	1.40	0.00	102.74	?UNDEF	?UNDEF	000.00	21.20	0.00	095.33	096.20	21.90	0.00	?UNDEF	?UNDEF
10	1.40	0.00	102.74	?UNDEF	?UNDEF	000.00	21.40	0.00	095.45	096.20	22.30	0.00	?UNDEF	?UNDEF
11	1.40	0.00	102.82	?UNDEF	?UNDEF	000.00	21.80	0.00	095.46	096.24	20.30	0.00	?UNDEF	?UNDEF
12	1.40	0.00	103.05	?UNDEF	?UNDEF	000.00	21.30	0.00	095.56	096.29	20.10	0.00	?UNDEF	?UNDEF
13	1.40	0.00	103.16	?UNDEF	?UNDEF	000.00	21.50	0.00	095.62	096.38	19.50	0.00	?UNDEF	?UNDEF
14	1.40	0.00	103.33	?UNDEF	?UNDEF	000.00	21.40	0.00	095.64	096.29	19.10	0.00	?UNDEF	?UNDEF
15	1.40	0.00	103.36	?UNDEF	?UNDEF	000.00	21.40	0.00	095.68	096.18	17.70	0.00	?UNDEF	?UNDEF
16	1.40	0.00	103.11	?UNDEF	?UNDEF	000.00	22.10	0.00	095.57	096.22	17.90	0.00	?UNDEF	?UNDEF
17	1.40	0.00	102.97	?UNDEF	?UNDEF	000.00	25.20	0.00	095.62	096.34	17.90	0.00	?UNDEF	?UNDEF
18	1.40	0.00	102.99	?UNDEF	?UNDEF	000.00	25.40	0.00	095.57	096.32	21.80	0.00	?UNDEF	?UNDEF
19	1.40	0.00	102.97	?UNDEF	?UNDEF	000.00	27.10	0.00	095.72	096.34	25.50	0.00	?UNDEF	?UNDEF
20	1.40	0.00	102.75	?UNDEF	?UNDEF	000.00	27.10	0.00	095.73	096.19	28.00	0.00	?UNDEF	?UNDEF
21	1.40	0.00	102.18	?UNDEF	?UNDEF	000.00	27.60	0.00	095.67	096.31	27.80	0.00	?UNDEF	?UNDEF
22	1.40	0.00	101.77	?UNDEF	?UNDEF	000.00	27.20	0.00	095.67	096.29	27.70	0.00	?UNDEF	?UNDEF
23	1.40	0.00	101.64	?UNDEF	?UNDEF	000.00	26.20	0.00	095.68	096.26	27.60	0.00	?UNDEF	?UNDEF
24	1.40	0.00	101.63	?UNDEF	?UNDEF	000.00	.40	0.00	095.69	096.01	13.50	0.00	?UNDEF	?UNDEF
HOUR:	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO	
	TOTAL	SPILL	GAS	%SAT.	TOTAL	SPILL	GAS	%SAT.	TOTAL	SPILL	GAS	%SAT.	GAS	
	DISCH	KCFS	FB	TAILW.	DISCH	KCFS	FB	TAILW.	DISCH	KCFS	OR	WA	%	
	KCFS	KCFS			KCFS	KCFS			KCFS	KCFS	FB	FB	SAT	
1	14.60	0.00	?UNDEF	?UNDEF	19.90	0.00	095.00	095.62	68.80	0.00	094.74	095.02	095.60	095.42
2	14.20	0.00	?UNDEF	?UNDEF	19.80	0.00	095.01	095.62	61.00	0.00	094.74	095.02	095.70	095.25
3	3.40	0.00	?UNDEF	?UNDEF	10.00	0.00	095.03	095.63	60.40	0.00	094.73	095.03	095.87	095.30
4	.70	0.00	?UNDEF	?UNDEF	9.80	0.00	094.93	095.70	66.80	0.00	094.79	094.95	095.92	095.34
5	.70	0.00	?UNDEF	?UNDEF	9.80	0.00	094.96	095.72	84.60	0.00	094.66	094.99	096.18	095.23
6	2.50	0.00	?UNDEF	?UNDEF	9.80	0.00	094.98	095.72	86.00	0.00	094.66	095.01	096.19	095.24
7	20.50	0.00	?UNDEF	?UNDEF	12.30	0.00	095.01	095.73	98.70	0.00	094.68	095.01	096.20	095.22
8	20.00	0.00	?UNDEF	?UNDEF	12.80	0.00	094.94	095.72	113.90	0.00	094.66	094.85	096.07	095.09
9	21.60	0.00	?UNDEF	?UNDEF	20.40	0.00	094.93	095.72	127.60	0.00	094.81	094.84	095.64	095.05
10	21.70	0.00	?UNDEF	?UNDEF	20.20	0.00	094.92	095.67	131.10	0.00	094.96	094.87	095.65	095.06
11	21.50	0.00	?UNDEF	?UNDEF	20.00	0.00	094.99	095.86	131.70	0.00	095.00	094.87	095.69	095.10
12	20.70	0.00	?UNDEF	?UNDEF	19.50	0.00	094.95	095.96	135.70	0.00	095.08	094.95	095.93	095.19
13	17.20	0.00	?UNDEF	?UNDEF	12.30	0.00	094.97	095.85	117.20	0.00	095.23	095.10	095.80	095.23
14	15.60	0.00	?UNDEF	?UNDEF	9.60	0.00	095.00	095.88	115.50	0.00	095.25	095.15	095.83	095.24
15	15.90	0.00	?UNDEF	?UNDEF	9.20	0.00	095.03	095.87	106.00	0.00	095.39	095.15	095.83	095.28
16	15.50	0.00	?UNDEF	?UNDEF	9.30	0.00	095.01	095.87	104.20	0.00	095.38	095.15	095.98	095.39
17	15.60	0.00	?UNDEF	?UNDEF	12.20	0.00	095.02	095.87	109.30	0.00	095.25	095.18	095.99	095.41
18	17.90	0.00	?UNDEF	?UNDEF	9.50	0.00	095.03	095.94	105.70	0.00	095.39	095.19	096.00	095.41
19	18.00	0.00	?UNDEF	?UNDEF	9.50	0.00	095.06	095.95	101.50	0.00	095.28	095.20	096.01	095.42
20	21.00	0.00	?UNDEF	?UNDEF	19.70	0.00	095.02	095.92	85.70	0.00	095.30	095.03	095.87	095.42
21	28.30	0.00	?UNDEF	?UNDEF	27.20	0.00	095.01	095.93	85.10	0.00	095.13	094.90	095.82	095.42
22	30.10	0.00	?UNDEF	?UNDEF	30.80	0.00	095.09	096.07	85.20	0.00	095.17	094.92	095.87	095.46
23	30.30	0.00	?UNDEF	?UNDEF	31.40	0.00	095.09	095.93	78.50	0.00	095.17	094.94	096.01	095.47
24	27.70	0.00	?UNDEF	?UNDEF	31.90	0.00	095.07	095.94	75.20	0.00	095.19	094.93	096.01	095.47

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	DWRSHAK			STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.40	0.00	103.61	?UNDEF	?UNDEF	000.00	11.70	0.00	096.32	096.78	12.80	0.00	?UNDEF	?UNDEF
2	1.40	0.00	103.46	?UNDEF	?UNDEF	000.00	11.30	0.00	096.22	096.84	12.80	0.00	?UNDEF	?UNDEF
3	1.40	0.00	103.29	?UNDEF	?UNDEF	000.00	1.80	0.00	096.17	096.63	3.30	0.00	?UNDEF	?UNDEF
4	1.40	0.00	103.25	?UNDEF	?UNDEF	000.00	.20	0.00	096.12	096.64	.40	0.00	?UNDEF	?UNDEF
5	1.40	0.00	103.22	?UNDEF	?UNDEF	000.00	1.40	0.00	096.09	096.57	.40	0.00	?UNDEF	?UNDEF
6	1.40	0.00	103.11	?UNDEF	?UNDEF	000.00	17.70	0.00	096.03	096.63	18.00	0.00	?UNDEF	?UNDEF
7	1.40	0.00	103.07	?UNDEF	?UNDEF	000.00	18.40	0.00	095.82	096.69	19.40	0.00	?UNDEF	?UNDEF
8	1.40	0.00	102.95	?UNDEF	?UNDEF	000.00	18.60	0.00	095.74	096.60	20.40	0.00	?UNDEF	?UNDEF
9	1.40	0.00	103.01	?UNDEF	?UNDEF	000.00	24.80	0.00	095.64	096.54	27.10	0.00	?UNDEF	?UNDEF
10	1.40	0.00	103.23	?UNDEF	?UNDEF	000.00	26.90	0.00	095.58	096.58	27.40	0.00	?UNDEF	?UNDEF
11	1.40	0.00	103.33	?UNDEF	?UNDEF	000.00	26.40	0.00	095.62	096.59	27.30	0.00	?UNDEF	?UNDEF
12	1.40	0.00	103.37	?UNDEF	?UNDEF	000.00	26.50	0.00	095.62	096.63	27.20	0.00	?UNDEF	?UNDEF
13	1.40	0.00	103.41	?UNDEF	?UNDEF	000.00	26.40	0.00	095.75	096.59	27.70	0.00	?UNDEF	?UNDEF
14	1.40	0.00	103.37	?UNDEF	?UNDEF	000.00	26.60	0.00	095.55	096.45	26.30	0.00	?UNDEF	?UNDEF
15	1.40	0.00	103.33	?UNDEF	?UNDEF	000.00	27.20	0.00	095.50	096.25	27.50	0.00	?UNDEF	?UNDEF
16	1.40	0.00	103.14	?UNDEF	?UNDEF	000.00	26.70	0.00	095.48	096.15	27.30	0.00	?UNDEF	?UNDEF
17	1.40	0.00	102.86	?UNDEF	?UNDEF	000.00	26.80	0.00	095.45	096.10	27.30	0.00	?UNDEF	?UNDEF
18	1.40	0.00	102.68	?UNDEF	?UNDEF	000.00	26.90	0.00	095.50	096.06	27.90	0.00	?UNDEF	?UNDEF
19	1.40	0.00	102.86	?UNDEF	?UNDEF	000.00	26.90	0.00	095.50	095.95	27.30	0.00	?UNDEF	?UNDEF
20	1.40	0.00	102.65	?UNDEF	?UNDEF	000.00	27.40	0.00	095.49	095.96	27.30	0.00	?UNDEF	?UNDEF
21	1.40	0.00	102.66	?UNDEF	?UNDEF	000.00	26.60	0.00	095.33	095.93	27.90	0.00	?UNDEF	?UNDEF
22	1.40	0.00	102.62	?UNDEF	?UNDEF	000.00	14.50	0.00	095.28	095.86	20.40	0.00	?UNDEF	?UNDEF
23	1.40	0.00	102.62	?UNDEF	?UNDEF	000.00	13.80	0.00	095.24	095.86	14.00	0.00	?UNDEF	?UNDEF
24	1.40	0.00	102.59	?UNDEF	?UNDEF	000.00	13.90	0.00	095.24	095.73	13.90	0.00	?UNDEF	?UNDEF

	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO	
HOUR	TOTAL DISCH	SPILL	GAS FB	%SAT. TAILW.	TOTAL DISCH	SPILL	GAS FB	%SAT. TAILW.	TOTAL DISCH	SPILL	GAS OR FB	%SAT. TAILW.	GAS % SAT	
	KCFS	KCFS			KCFS	KCFS			KCFS	KCFS				
1	13.90	0.00	?UNDEF	?UNDEF	20.90	0.00	095.96	096.59	90.70	0.00	095.52	095.44	096.29	095.69
2	13.80	0.00	?UNDEF	?UNDEF	20.00	0.00	095.88	096.49	90.60	0.00	095.45	095.35	096.18	095.62
3	13.80	0.00	?UNDEF	?UNDEF	11.40	0.00	095.69	096.42	88.60	0.00	095.39	095.18	096.27	095.58
4	13.70	0.00	?UNDEF	?UNDEF	11.20	0.00	095.66	096.41	97.20	0.00	095.34	095.09	096.21	095.39
5	13.90	0.00	?UNDEF	?UNDEF	11.20	0.00	095.62	096.36	101.40	0.00	095.31	095.06	096.21	095.35
6	19.00	0.00	?UNDEF	?UNDEF	11.20	0.00	095.54	096.30	124.10	0.00	095.36	095.00	096.08	095.26
7	19.00	0.00	?UNDEF	?UNDEF	12.10	0.00	095.46	096.18	129.70	0.00	095.28	094.96	096.16	095.19
8	19.30	0.00	?UNDEF	?UNDEF	20.20	0.00	095.37	096.12	128.40	0.00	095.11	094.87	095.84	095.13
9	26.20	0.00	?UNDEF	?UNDEF	20.50	0.00	095.31	096.06	128.20	0.00	095.15	094.94	095.74	094.99
10	27.40	0.00	?UNDEF	?UNDEF	26.60	0.00	095.26	096.20	136.90	0.00	095.08	094.90	095.69	094.97
11	27.50	0.00	?UNDEF	?UNDEF	26.90	0.00	095.27	096.23	135.20	0.00	095.24	095.01	095.72	094.97
12	27.50	0.00	?UNDEF	?UNDEF	26.70	0.00	095.22	096.07	133.60	0.00	095.23	095.16	095.83	095.00
13	27.90	0.00	?UNDEF	?UNDEF	28.60	0.00	095.23	096.19	115.40	0.00	095.37	095.19	095.85	095.15
14	26.50	0.00	?UNDEF	?UNDEF	24.70	0.00	095.22	096.03	121.10	0.00	095.60	095.27	095.95	095.25
15	27.40	0.00	?UNDEF	?UNDEF	24.70	0.00	095.14	095.96	114.50	0.00	095.42	095.21	095.89	095.29
16	27.40	0.00	?UNDEF	?UNDEF	24.80	0.00	095.13	095.86	137.40	0.00	095.15	095.17	095.75	095.57
17	27.50	0.00	?UNDEF	?UNDEF	25.00	0.00	095.13	095.87	151.10	0.00	095.13	095.16	095.72	095.67
18	27.50	0.00	?UNDEF	?UNDEF	25.40	0.00	095.13	095.90	153.40	0.00	095.11	095.13	095.45	095.68
19	28.90	0.00	?UNDEF	?UNDEF	26.90	0.00	095.14	095.87	150.80	0.00	095.11	095.13	095.58	095.67
20	27.90	0.00	?UNDEF	?UNDEF	26.80	0.00	095.08	095.85	150.20	0.00	095.08	095.12	095.57	095.60
21	27.40	0.00	?UNDEF	?UNDEF	28.50	0.00	095.06	095.62	127.60	0.00	095.04	094.94	095.47	095.51
22	15.90	0.00	?UNDEF	?UNDEF	21.50	0.00	094.98	095.58	99.50	0.00	094.86	094.92	095.43	095.50
23	14.50	0.00	?UNDEF	?UNDEF	20.30	0.00	094.93	095.59	77.00	0.00	094.85	094.89	095.41	095.37
24	14.40	0.00	?UNDEF	?UNDEF	20.00	0.00	095.00	095.57	67.80	0.00	094.81	094.87	095.41	095.37

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	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.40	0.00	103.81	?UNDEF	?UNDEF	000.00	17.50	0.00	097.15	098.05	17.50	0.00	?UNDEF	?UNDEF
2	1.40	0.00	103.76	?UNDEF	?UNDEF	000.00	19.10	0.00	097.12	098.13	14.80	0.00	?UNDEF	?UNDEF
3	1.40	0.00	103.73	?UNDEF	?UNDEF	000.00	17.60	0.00	097.07	098.28	14.70	0.00	?UNDEF	?UNDEF
4	1.40	0.00	103.85	?UNDEF	?UNDEF	000.00	17.60	0.00	097.26	098.12	12.60	0.00	?UNDEF	?UNDEF
5	1.40	0.00	104.02	?UNDEF	?UNDEF	000.00	17.90	0.00	097.30	098.19	12.80	0.00	?UNDEF	?UNDEF
6	1.40	0.00	104.01	?UNDEF	?UNDEF	000.00	18.30	0.00	097.31	098.08	12.60	0.00	?UNDEF	?UNDEF
7	1.40	0.00	103.92	?UNDEF	?UNDEF	000.00	25.20	0.00	097.32	098.09	12.70	0.00	?UNDEF	?UNDEF
8	1.40	0.00	103.74	?UNDEF	?UNDEF	000.00	25.80	0.00	097.31	097.95	22.60	0.00	?UNDEF	?UNDEF
9	1.40	0.00	103.88	?UNDEF	?UNDEF	000.00	26.20	0.00	097.28	097.95	21.40	0.00	?UNDEF	?UNDEF
10	1.40	0.00	104.14	?UNDEF	?UNDEF	000.00	25.40	0.00	097.31	097.92	21.40	0.00	?UNDEF	?UNDEF
11	1.40	0.00	104.13	?UNDEF	?UNDEF	000.00	19.50	0.00	097.37	098.00	21.70	0.00	?UNDEF	?UNDEF
12	1.40	0.00	104.48	?UNDEF	?UNDEF	000.00	19.10	0.00	097.34	098.05	21.20	0.00	?UNDEF	?UNDEF
13	1.40	0.00	104.47	?UNDEF	?UNDEF	000.00	19.20	0.00	097.35	097.98	21.30	0.00	?UNDEF	?UNDEF
14	1.40	0.00	104.50	?UNDEF	?UNDEF	000.00	19.60	0.00	097.39	098.01	21.40	0.00	?UNDEF	?UNDEF
15	1.40	0.00	104.23	?UNDEF	?UNDEF	000.00	19.20	0.00	097.31	097.84	21.50	0.00	?UNDEF	?UNDEF
16	1.40	0.00	103.92	?UNDEF	?UNDEF	000.00	19.50	0.00	097.31	097.86	22.00	0.00	?UNDEF	?UNDEF
17	1.40	0.00	103.92	?UNDEF	?UNDEF	000.00	26.10	0.00	097.24	097.79	27.30	0.00	?UNDEF	?UNDEF
18	1.40	0.00	103.81	?UNDEF	?UNDEF	000.00	26.40	0.00	097.08	097.72	27.30	0.00	?UNDEF	?UNDEF
19	1.40	0.00	103.92	?UNDEF	?UNDEF	000.00	27.20	0.00	096.99	097.62	27.60	0.00	?UNDEF	?UNDEF
20	1.40	0.00	103.67	?UNDEF	?UNDEF	000.00	33.80	0.00	096.93	097.56	34.90	0.00	?UNDEF	?UNDEF
21	1.40	0.00	103.59	?UNDEF	?UNDEF	000.00	33.90	0.00	096.81	097.26	35.60	0.00	?UNDEF	?UNDEF
22	1.40	0.00	103.48	?UNDEF	?UNDEF	000.00	27.20	0.00	096.71	097.20	27.60	0.00	?UNDEF	?UNDEF
23	1.40	0.00	103.53	?UNDEF	?UNDEF	000.00	20.00	0.00	096.50	097.10	19.70	0.00	?UNDEF	?UNDEF
24	1.40	0.00	103.56	?UNDEF	?UNDEF	000.00	18.70	0.00	096.41	097.01	19.20	0.00	?UNDEF	?UNDEF
	LOWER MONUMENTAL			ICE HARBOR			MCNARY			PASCO				
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	13.80	0.00	?UNDEF	?UNDEF	12.80	0.00	096.68	097.94	106.80	0.00	096.23	096.24	096.93	096.12
2	13.70	0.00	?UNDEF	?UNDEF	9.60	0.00	096.65	097.91	115.90	0.00	096.22	096.24	097.06	096.12
3	13.70	0.00	?UNDEF	?UNDEF	9.50	0.00	096.66	097.94	116.30	0.00	096.23	096.12	097.10	096.16
4	13.80	0.00	?UNDEF	?UNDEF	9.50	0.00	096.70	097.98	117.20	0.00	096.29	096.31	097.12	096.16
5	15.30	0.00	?UNDEF	?UNDEF	9.40	0.00	096.77	098.02	126.10	0.00	096.45	096.38	097.06	096.22
6	14.10	0.00	?UNDEF	?UNDEF	9.60	0.00	096.75	098.00	139.00	0.00	096.44	096.36	097.16	096.22
7	14.00	0.00	?UNDEF	?UNDEF	9.50	0.00	096.77	097.99	141.20	0.00	096.48	096.35	097.07	096.22
8	20.80	0.00	?UNDEF	?UNDEF	13.30	0.00	096.58	097.90	117.60	0.00	096.32	096.33	096.93	096.20
9	21.10	0.00	?UNDEF	?UNDEF	21.90	0.00	096.69	097.83	115.30	0.00	096.19	096.24	096.77	096.16
10	21.00	0.00	?UNDEF	?UNDEF	22.20	0.00	096.57	097.81	114.60	0.00	096.20	096.25	096.90	096.07
11	21.00	0.00	?UNDEF	?UNDEF	23.60	0.00	096.64	097.87	113.70	0.00	096.24	096.29	097.10	096.12
12	22.90	0.00	?UNDEF	?UNDEF	22.50	0.00	096.70	098.04	131.80	0.00	096.48	096.48	097.20	096.31
13	21.00	0.00	?UNDEF	?UNDEF	23.60	0.00	096.77	098.39	150.10	0.00	096.71	096.47	097.17	096.41
14	21.10	0.00	?UNDEF	?UNDEF	22.00	0.00	096.77	098.07	153.40	0.00	096.74	096.52	097.23	096.62
15	21.10	0.00	?UNDEF	?UNDEF	22.00	0.00	096.70	097.96	154.00	0.00	096.66	096.42	097.15	096.60
16	21.10	0.00	?UNDEF	?UNDEF	22.10	0.00	096.64	097.75	143.60	0.00	096.48	096.54	096.97	096.65
17	26.50	0.00	?UNDEF	?UNDEF	28.30	0.00	096.57	097.72	131.90	0.00	096.42	096.44	096.92	096.60
18	27.40	0.00	?UNDEF	?UNDEF	27.20	0.00	096.51	097.64	125.60	0.00	096.34	096.37	096.70	096.54
19	27.20	0.00	?UNDEF	?UNDEF	28.00	0.00	096.42	097.57	124.10	0.00	096.27	096.17	096.64	096.47
20	37.10	0.00	?UNDEF	?UNDEF	37.00	0.00	096.36	097.10	123.60	0.00	096.20	096.07	096.56	096.36
21	37.30	0.00	?UNDEF	?UNDEF	37.60	0.00	096.29	097.01	122.60	0.00	095.99	095.90	096.59	096.30
22	37.20	0.00	?UNDEF	?UNDEF	37.50	0.00	096.20	096.95	96.20	0.00	095.89	095.68	096.37	096.05
23	28.10	0.00	?UNDEF	?UNDEF	37.20	0.00	096.13	096.83	92.20	0.00	095.67	095.61	096.31	095.99
24	20.70	0.00	?UNDEF	?UNDEF	27.90	0.00	096.05	096.64	89.50	0.00	095.60	095.50	096.36	095.99

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	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOURL	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.40	0.00	104.22	?UNDEF	?UNDEF	000.00	19.40	0.00	097.86	098.75	19.60	0.00	?UNDEF	?UNDEF
2	1.40	0.00	104.15	?UNDEF	?UNDEF	000.00	.40	0.00	097.82	098.58	9.30	0.00	?UNDEF	?UNDEF
3	1.40	0.00	104.08	?UNDEF	?UNDEF	000.00	.40	0.00	097.65	098.54	.40	0.00	?UNDEF	?UNDEF
4	1.40	0.00	104.07	?UNDEF	?UNDEF	000.00	2.10	0.00	097.61	098.49	.40	0.00	?UNDEF	?UNDEF
5	1.40	0.00	104.01	?UNDEF	?UNDEF	000.00	.40	0.00	097.58	098.49	13.60	0.00	?UNDEF	?UNDEF
6	1.40	0.00	103.94	?UNDEF	?UNDEF	000.00	15.70	0.00	097.57	099.00	19.50	0.00	?UNDEF	?UNDEF
7	1.40	0.00	104.06	?UNDEF	?UNDEF	000.00	19.70	0.00	097.57	099.09	21.50	0.00	?UNDEF	?UNDEF
8	1.40	0.00	104.02	?UNDEF	?UNDEF	000.00	19.40	0.00	097.46	098.90	19.90	0.00	?UNDEF	?UNDEF
9	1.40	0.00	104.08	?UNDEF	?UNDEF	000.00	19.50	0.00	097.42	098.73	20.20	0.00	?UNDEF	?UNDEF
10	1.40	0.00	104.28	?UNDEF	?UNDEF	000.00	19.40	0.00	097.40	098.57	19.40	0.00	?UNDEF	?UNDEF
11	1.40	0.00	104.43	?UNDEF	?UNDEF	000.00	14.10	0.00	097.38	098.69	14.50	0.00	?UNDEF	?UNDEF
12	1.40	0.00	104.73	?UNDEF	?UNDEF	000.00	13.50	0.00	097.41	098.72	13.00	0.00	?UNDEF	?UNDEF
13	1.40	0.00	104.85	?UNDEF	?UNDEF	000.00	12.60	0.00	097.38	098.54	12.60	0.00	?UNDEF	?UNDEF
14	1.40	0.00	104.79	?UNDEF	?UNDEF	000.00	.40	0.00	097.37	098.52	.40	0.00	?UNDEF	?UNDEF
15	1.40	0.00	104.59	?UNDEF	?UNDEF	000.00	.40	0.00	097.32	099.99	.40	0.00	?UNDEF	?UNDEF
16	1.40	0.00	104.29	?UNDEF	?UNDEF	000.00	.20	0.00	097.29	105.41	.40	0.00	?UNDEF	?UNDEF
17	1.40	0.00	104.26	?UNDEF	?UNDEF	000.00	1.40	0.00	097.31	106.61	4.00	0.00	?UNDEF	?UNDEF
18	1.40	0.00	104.13	?UNDEF	?UNDEF	000.00	28.80	0.00	097.28	107.27	29.80	0.00	?UNDEF	?UNDEF
19	1.40	0.00	104.26	?UNDEF	?UNDEF	000.00	40.20	0.00	097.27	102.18	42.70	0.00	?UNDEF	?UNDEF
20	1.40	0.00	103.94	?UNDEF	?UNDEF	000.00	32.20	0.00	097.24	100.68	41.10	0.00	?UNDEF	?UNDEF
21	1.40	0.00	103.88	?UNDEF	?UNDEF	000.00	36.90	0.00	097.20	098.89	42.20	0.00	?UNDEF	?UNDEF
22	1.40	0.00	103.84	?UNDEF	?UNDEF	000.00	32.00	0.00	097.15	098.83	25.60	0.00	?UNDEF	?UNDEF
23	1.40	0.00	103.81	?UNDEF	?UNDEF	000.00	26.30	0.00	097.16	099.21	25.90	0.00	?UNDEF	?UNDEF
24	1.40	0.00	103.83	?UNDEF	?UNDEF	000.00	18.20	0.00	097.14	098.33	24.90	0.00	?UNDEF	?UNDEF
	LOWER MONUMENTAL			ICE HARBOR			MCNARY			PASCO				
HOURL	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB %SAT. TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB %SAT. TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	OR FB	GAS WA FB %SAT. TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB %SAT. TAILW.	TOTAL DISCH. KCFS
1	26.10	0.00	?UNDEF	24.30	0.00	097.16	098.31	145.60	0.00	097.19	097.00	097.69	096.48	096.31
2	17.40	0.00	?UNDEF	13.20	0.00	097.08	098.09	143.60	0.00	097.15	096.79	097.61	096.25	096.25
3	17.00	0.00	?UNDEF	13.30	0.00	097.04	098.05	128.90	0.00	097.11	096.72	097.60	096.25	096.25
4	16.20	0.00	?UNDEF	18.60	0.00	097.02	098.03	141.20	0.00	096.95	096.84	097.56	096.25	096.25
5	17.40	0.00	?UNDEF	18.30	0.00	096.99	098.01	141.20	0.00	097.03	096.78	097.48	096.18	096.18
6	18.90	0.00	?UNDEF	19.40	0.00	096.97	097.99	119.70	0.00	096.88	096.61	097.30	096.21	096.21
7	20.80	0.00	?UNDEF	20.50	0.00	096.97	097.96	158.30	0.00	096.86	096.65	097.44	096.16	096.16
8	20.90	0.00	?UNDEF	20.80	0.00	096.92	097.94	162.70	0.00	096.80	096.71	097.26	096.11	096.11
9	21.30	0.00	?UNDEF	20.60	0.00	096.86	097.90	161.80	0.00	096.87	096.52	097.35	096.04	096.04
10	21.10	0.00	?UNDEF	22.00	0.00	096.80	097.89	127.80	0.00	096.84	096.47	097.26	096.01	096.01
11	14.50	0.00	?UNDEF	20.60	0.00	096.81	097.90	124.90	0.00	096.72	096.47	097.42	096.16	096.16
12	15.30	0.00	?UNDEF	21.00	0.00	096.83	097.88	117.60	0.00	096.71	096.45	097.31	096.28	096.28
13	14.20	0.00	?UNDEF	20.60	0.00	096.79	098.09	117.00	0.00	096.71	096.44	097.30	096.56	096.56
14	.80	0.00	?UNDEF	10.70	0.00	096.89	097.89	130.80	0.00	096.68	096.45	097.41	096.48	096.48
15	.70	0.00	?UNDEF	1.30	0.00	096.87	097.84	133.90	0.00	096.67	096.30	097.24	096.62	096.62
16	.70	0.00	?UNDEF	2.10	0.00	096.80	097.83	133.30	0.00	096.62	096.40	097.21	096.60	096.60
17	1.00	0.00	?UNDEF	2.00	0.00	096.82	097.82	133.20	0.00	096.62	096.39	097.24	096.57	096.57
18	29.80	0.00	?UNDEF	20.70	0.00	096.82	097.82	133.80	0.00	096.61	096.40	097.07	096.57	096.57
19	41.80	0.00	?UNDEF	34.30	0.00	096.79	097.76	133.30	0.00	096.58	096.36	097.20	096.54	096.54
20	42.20	0.00	?UNDEF	35.00	0.00	096.74	098.40	122.50	0.00	096.43	096.35	097.16	096.34	096.34
21	42.40	0.00	?UNDEF	40.20	0.00	096.77	098.15	124.20	0.00	096.41	096.33	097.28	096.33	096.33
22	41.90	0.00	?UNDEF	40.60	0.00	096.73	098.12	123.60	0.00	096.44	096.33	097.29	096.33	096.33
23	36.20	0.00	?UNDEF	40.90	0.00	096.71	097.98	124.20	0.00	096.40	096.28	097.15	096.33	096.33
24	18.90	0.00	?UNDEF	26.30	0.00	096.69	097.95	122.90	0.00	096.24	096.31	096.99	096.33	096.33

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	DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	
1	1.40	0.00	104.23	?UNDEF	?UNDEF	000.00	13.80	0.00	098.26	098.78	14.10	0.00	?UNDEF	?UNDEF	
2	1.40	0.00	104.16	?UNDEF	?UNDEF	000.00	13.80	0.00	098.25	098.79	1.90	0.00	?UNDEF	?UNDEF	
3	1.40	0.00	104.22	?UNDEF	?UNDEF	000.00	13.70	0.00	098.43	098.69	1.90	0.00	?UNDEF	?UNDEF	
4	1.40	0.00	104.33	?UNDEF	?UNDEF	000.00	15.50	0.00	098.54	098.94	.40	0.00	?UNDEF	?UNDEF	
5	1.40	0.00	104.13	?UNDEF	?UNDEF	000.00	14.00	0.00	098.61	099.11	.40	0.00	?UNDEF	?UNDEF	
6	1.40	0.00	104.38	?UNDEF	?UNDEF	000.00	21.30	0.00	098.69	099.20	14.90	0.00	?UNDEF	?UNDEF	
7	1.40	0.00	104.56	?UNDEF	?UNDEF	000.00	21.40	0.00	098.67	099.22	21.70	0.00	?UNDEF	?UNDEF	
8	1.40	0.00	104.61	?UNDEF	?UNDEF	000.00	21.00	0.00	098.58	099.23	22.00	0.00	?UNDEF	?UNDEF	
9	1.40	0.00	104.67	?UNDEF	?UNDEF	000.00	21.20	0.00	098.50	099.29	22.10	0.00	?UNDEF	?UNDEF	
10	1.40	0.00	104.96	?UNDEF	?UNDEF	000.00	20.70	0.00	098.52	101.56	22.00	0.00	?UNDEF	?UNDEF	
11	1.40	0.00	105.13	?UNDEF	?UNDEF	000.00	21.10	0.00	098.52	101.04	21.80	0.00	?UNDEF	?UNDEF	
12	1.40	0.00	105.25	?UNDEF	?UNDEF	000.00	20.70	0.00	098.55	100.51	22.40	0.00	?UNDEF	?UNDEF	
13	1.40	0.00	105.31	?UNDEF	?UNDEF	000.00	20.70	0.00	098.40	100.11	21.50	0.00	?UNDEF	?UNDEF	
14	1.40	0.00	105.03	?UNDEF	?UNDEF	000.00	20.60	0.00	098.35	099.93	21.30	0.00	?UNDEF	?UNDEF	
15	1.40	0.00	105.61	?UNDEF	?UNDEF	000.00	20.60	0.00	098.24	099.97	21.60	0.00	?UNDEF	?UNDEF	
16	1.40	0.00	105.28	?UNDEF	?UNDEF	000.00	23.60	0.00	098.20	099.78	34.90	0.00	?UNDEF	?UNDEF	
17	1.40	0.00	104.81	?UNDEF	?UNDEF	000.00	39.80	0.00	098.16	099.89	41.40	0.00	?UNDEF	?UNDEF	
18	1.40	0.00	104.54	?UNDEF	?UNDEF	000.00	49.80	0.00	098.27	099.74	49.20	0.00	?UNDEF	?UNDEF	
19	1.40	0.00	104.81	?UNDEF	?UNDEF	000.00	54.70	0.00	098.23	099.43	56.30	0.00	?UNDEF	?UNDEF	
20	1.40	0.00	104.43	?UNDEF	?UNDEF	000.00	56.50	0.00	098.19	099.09	56.40	0.00	?UNDEF	?UNDEF	
21	1.40	0.00	104.40	?UNDEF	?UNDEF	000.00	36.80	0.00	098.14	098.87	48.80	0.00	?UNDEF	?UNDEF	
22	1.40	0.00	104.30	?UNDEF	?UNDEF	000.00	33.30	0.00	098.10	098.75	35.40	0.00	?UNDEF	?UNDEF	
23	1.40	0.00	104.29	?UNDEF	?UNDEF	000.00	23.50	0.00	098.02	098.63	22.00	0.00	?UNDEF	?UNDEF	
24	1.40	0.00	104.23	?UNDEF	?UNDEF	000.00	21.70	0.00	097.90	098.82	23.60	0.00	?UNDEF	?UNDEF	
	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT	
1	28.30	0.00	?UNDEF	?UNDEF	34.20	0.00	097.41	098.41	109.00	0.00	098.04	098.00	098.36	096.71	
2	15.00	0.00	?UNDEF	?UNDEF	21.40	0.00	097.46	098.45	123.80	0.00	097.90	097.87	098.39	096.74	
3	13.20	0.00	?UNDEF	?UNDEF	11.40	0.00	097.54	098.51	138.00	0.00	098.00	097.95	098.46	096.79	
4	2.20	0.00	?UNDEF	?UNDEF	9.60	0.00	097.50	098.52	145.70	0.00	097.87	097.96	098.57	096.82	
5	.90	0.00	?UNDEF	?UNDEF	9.60	0.00	097.54	098.42	148.90	0.00	097.87	097.96	098.52	096.86	
6	15.30	0.00	?UNDEF	?UNDEF	9.40	0.00	097.56	098.46	152.90	0.00	097.86	097.91	098.49	096.84	
7	14.30	0.00	?UNDEF	?UNDEF	9.50	0.00	097.53	098.40	145.50	0.00	097.87	097.75	098.17	096.87	
8	19.90	0.00	?UNDEF	?UNDEF	12.60	0.00	097.53	098.41	137.70	0.00	097.82	097.59	098.18	096.84	
9	20.40	0.00	?UNDEF	?UNDEF	14.70	0.00	097.49	098.40	138.50	0.00	097.58	097.40	098.19	096.82	
10	20.50	0.00	?UNDEF	?UNDEF	13.20	0.00	097.51	098.41	140.20	0.00	097.79	097.45	098.26	096.78	
11	20.70	0.00	?UNDEF	?UNDEF	14.60	0.00	097.51	098.46	141.80	0.00	097.70	097.51	098.30	097.01	
12	20.90	0.00	?UNDEF	?UNDEF	13.20	0.00	097.55	098.56	144.10	0.00	097.86	097.48	098.32	097.01	
13	20.20	0.00	?UNDEF	?UNDEF	14.30	0.00	097.54	101.10	139.00	0.00	097.83	097.48	098.44	097.16	
14	20.80	0.00	?UNDEF	?UNDEF	17.90	0.00	097.56	101.44	137.90	0.00	097.86	097.49	098.42	097.29	
15	20.70	0.00	?UNDEF	?UNDEF	13.50	0.00	097.46	100.76	139.10	0.00	097.77	097.43	098.39	097.23	
16	21.30	0.00	?UNDEF	?UNDEF	20.20	0.00	097.39	099.77	148.10	0.00	097.70	097.35	098.19	097.15	
17	34.90	0.00	?UNDEF	?UNDEF	22.00	0.00	097.41	099.45	154.20	0.00	097.57	097.32	098.21	097.14	
18	49.60	0.00	?UNDEF	?UNDEF	38.40	0.00	097.37	098.92	160.10	0.00	097.55	097.32	098.14	096.97	
19	55.30	0.00	?UNDEF	?UNDEF	55.40	0.00	097.32	098.75	160.70	0.00	097.49	097.25	098.10	096.92	
20	56.50	0.00	?UNDEF	?UNDEF	56.20	0.00	097.29	098.55	161.70	0.00	097.45	097.22	097.93	096.76	
21	50.70	0.00	?UNDEF	?UNDEF	49.10	0.00	097.21	098.50	161.60	0.00	097.43	097.18	097.87	096.72	
22	37.20	0.00	?UNDEF	?UNDEF	48.40	0.00	097.17	098.47	160.70	0.00	097.36	097.00	097.83	096.55	
23	34.30	0.00	?UNDEF	?UNDEF	34.90	0.00	097.14	098.31	161.40	0.00	097.19	097.01	097.67	096.52	
24	26.60	0.00	?UNDEF	?UNDEF	22.20	0.00	097.19	098.31	161.30	0.00	097.19	097.00	097.67	096.52	

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DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.
1	1.40	0.00	103.86	?UNDEF	?UNDEF	*****	15.70	0.00	097.78	098.43	12.80	0.00	?UNDEF	?UNDEF
2	1.40	0.00	103.73	?UNDEF	?UNDEF	*****	14.10	0.00	097.72	098.33	14.20	0.00	?UNDEF	?UNDEF
3	1.40	0.00	103.72	?UNDEF	?UNDEF	*****	13.90	0.00	097.69	098.49	12.80	0.00	?UNDEF	?UNDEF
4	1.40	0.00	103.81	?UNDEF	?UNDEF	*****	14.10	0.00	097.56	098.46	12.60	0.00	?UNDEF	?UNDEF
5	1.40	0.00	103.82	?UNDEF	?UNDEF	*****	20.40	0.00	097.54	098.30	12.90	0.00	?UNDEF	?UNDEF
6	1.40	0.00	103.77	?UNDEF	?UNDEF	*****	21.20	0.00	097.53	098.30	22.40	0.00	?UNDEF	?UNDEF
7	1.40	0.00	103.73	?UNDEF	?UNDEF	*****	27.70	0.00	097.69	098.33	26.90	0.00	?UNDEF	?UNDEF
8	1.40	0.00	103.73	?UNDEF	?UNDEF	000.00	39.20	0.00	097.67	098.30	39.40	0.00	?UNDEF	?UNDEF
9	1.40	0.00	103.83	?UNDEF	?UNDEF	000.00	39.30	0.00	097.60	098.78	39.70	0.00	?UNDEF	?UNDEF
10	1.40	0.00	103.97	?UNDEF	?UNDEF	000.00	24.10	0.00	097.51	099.24	22.50	0.00	?UNDEF	?UNDEF
11	1.40	0.00	104.11	?UNDEF	?UNDEF	000.00	24.20	0.00	097.60	098.88	22.10	0.00	?UNDEF	?UNDEF
12	1.40	0.00	104.17	?UNDEF	?UNDEF	000.00	24.10	0.00	097.80	098.66	21.50	0.00	?UNDEF	?UNDEF
13	1.40	0.00	104.23	?UNDEF	?UNDEF	000.00	17.80	0.00	097.81	098.98	15.90	0.00	?UNDEF	?UNDEF
14	1.40	0.00	104.42	?UNDEF	?UNDEF	000.00	15.30	0.00	097.84	099.01	15.90	0.00	?UNDEF	?UNDEF
15	1.40	0.00	104.43	?UNDEF	?UNDEF	000.00	15.30	0.00	097.79	098.94	16.00	0.00	?UNDEF	?UNDEF
16	1.40	0.00	104.12	?UNDEF	?UNDEF	000.00	26.60	0.00	097.79	099.34	25.70	0.00	?UNDEF	?UNDEF
17	1.40	0.00	104.15	?UNDEF	?UNDEF	000.00	42.60	0.00	097.84	099.95	44.70	0.00	?UNDEF	?UNDEF
18	1.40	0.00	104.05	?UNDEF	?UNDEF	000.00	45.40	0.00	097.77	099.75	45.90	0.00	?UNDEF	?UNDEF
19	1.40	0.00	104.15	?UNDEF	?UNDEF	000.00	37.00	0.00	097.82	099.13	46.70	0.00	?UNDEF	?UNDEF
20	1.40	0.00	104.08	?UNDEF	?UNDEF	000.00	40.60	0.00	097.86	098.90	46.70	0.00	?UNDEF	?UNDEF
21	1.40	0.00	104.12	?UNDEF	?UNDEF	000.00	38.80	0.00	097.89	098.71	46.40	0.00	?UNDEF	?UNDEF
22	1.40	0.00	104.05	?UNDEF	?UNDEF	000.00	38.20	0.00	097.94	098.59	47.70	0.00	?UNDEF	?UNDEF
23	1.40	0.00	104.24	?UNDEF	?UNDEF	000.00	22.10	0.00	097.99	098.60	41.10	0.00	?UNDEF	?UNDEF
24	1.40	0.00	104.19	?UNDEF	?UNDEF	000.00	14.40	0.00	098.11	098.60	21.90	0.00	?UNDEF	?UNDEF
LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT
1	13.70	0.00	?UNDEF	?UNDEF	11.30	0.00	096.95	097.94	73.50	0.00	096.92	096.85	097.67	096.46
2	13.70	0.00	?UNDEF	?UNDEF	12.70	0.00	096.93	097.96	82.20	0.00	096.92	096.83	097.77	096.42
3	13.70	0.00	?UNDEF	?UNDEF	11.10	0.00	096.92	097.90	84.80	0.00	096.93	096.69	097.92	096.42
4	13.90	0.00	?UNDEF	?UNDEF	11.00	0.00	096.89	097.89	110.00	0.00	096.89	096.66	098.01	096.27
5	14.10	0.00	?UNDEF	?UNDEF	11.00	0.00	096.89	097.90	129.20	0.00	096.92	096.69	097.92	096.27
6	14.10	0.00	?UNDEF	?UNDEF	11.10	0.00	096.88	098.04	146.50	0.00	096.80	096.70	097.78	096.16
7	20.80	0.00	?UNDEF	?UNDEF	19.30	0.00	096.92	098.71	154.50	0.00	096.75	096.81	097.50	096.12
8	31.30	0.00	?UNDEF	?UNDEF	30.60	0.00	096.86	098.82	141.90	0.00	096.74	096.76	097.59	095.91
9	38.70	0.00	?UNDEF	?UNDEF	39.20	0.00	096.76	099.32	139.50	0.00	096.67	096.73	097.55	095.85
10	41.90	0.00	?UNDEF	?UNDEF	40.10	0.00	096.75	098.94	140.80	0.00	096.83	096.74	097.68	095.84
11	41.00	0.00	?UNDEF	?UNDEF	41.20	0.00	096.88	098.28	127.20	0.00	096.84	096.74	097.71	095.82
12	41.50	0.00	?UNDEF	?UNDEF	42.30	0.00	096.95	098.30	125.10	0.00	097.04	096.82	097.75	096.03
13	21.60	0.00	?UNDEF	?UNDEF	31.70	0.00	097.00	098.18	125.00	0.00	097.20	096.87	097.97	096.19
14	16.00	0.00	?UNDEF	?UNDEF	32.60	0.00	097.01	098.33	126.50	0.00	097.17	096.95	097.90	096.33
15	15.70	0.00	?UNDEF	?UNDEF	21.50	0.00	097.01	101.22	126.00	0.00	097.18	096.99	097.83	096.43
16	15.60	0.00	?UNDEF	?UNDEF	21.50	0.00	096.92	099.14	134.90	0.00	097.40	097.20	098.03	096.47
17	16.50	0.00	?UNDEF	?UNDEF	22.10	0.00	096.94	098.89	136.40	0.00	097.43	097.41	098.08	096.64
18	29.40	0.00	?UNDEF	?UNDEF	20.60	0.00	097.01	098.27	136.30	0.00	097.51	097.51	098.00	096.66
19	40.00	0.00	?UNDEF	?UNDEF	30.30	0.00	097.06	098.29	134.90	0.00	097.53	097.61	098.03	096.68
20	43.50	0.00	?UNDEF	?UNDEF	41.40	0.00	097.08	098.33	152.40	0.00	097.54	097.63	097.91	096.58
21	48.10	0.00	?UNDEF	?UNDEF	46.10	0.00	097.10	098.19	154.20	0.00	097.54	097.66	097.92	096.62
22	46.10	0.00	?UNDEF	?UNDEF	47.70	0.00	097.17	098.13	143.10	0.00	097.66	097.71	098.00	096.53
23	45.90	0.00	?UNDEF	?UNDEF	48.40	0.00	097.21	098.22	115.30	0.00	097.89	097.81	098.10	096.64
24	43.20	0.00	?UNDEF	?UNDEF	47.00	0.00	097.32	098.33	93.20	0.00	097.95	097.91	098.28	096.64

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HOUR	DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.		
1	1.40	0.00	102.53	?UNDEF	?UNDEF	?UNDEF	.90	0.00	097.50	098.27	2.00	0.00	?UNDEF	?UNDEF		
2	1.40	0.00	102.54	?UNDEF	?UNDEF	?UNDEF	.30	0.00	097.50	098.24	2.00	0.00	?UNDEF	?UNDEF		
3	1.40	0.00	102.25	?UNDEF	?UNDEF	?UNDEF	7.90	0.00	097.50	098.43	.50	0.00	?UNDEF	?UNDEF		
4	1.40	0.00	103.31	?UNDEF	?UNDEF	?UNDEF	29.20	0.00	097.55	098.76	.50	0.00	?UNDEF	?UNDEF		
5	1.40	0.00	103.74	?UNDEF	?UNDEF	?UNDEF	34.40	0.00	097.66	098.91	19.40	0.00	?UNDEF	?UNDEF		
6	1.40	0.00	103.83	?UNDEF	?UNDEF	?UNDEF	38.00	0.00	097.75	098.62	28.40	0.00	?UNDEF	?UNDEF		
7	1.40	0.00	103.91	?UNDEF	?UNDEF	?UNDEF	38.00	0.00	097.80	098.57	39.60	0.00	?UNDEF	?UNDEF		
8	1.40	0.00	103.78	?UNDEF	?UNDEF	?UNDEF	37.80	0.00	097.81	098.56	39.50	0.00	?UNDEF	?UNDEF		
9	1.40	0.00	103.86	?UNDEF	?UNDEF	?UNDEF	33.00	0.00	097.90	098.66	39.90	0.00	?UNDEF	?UNDEF		
10	1.40	0.00	103.96	?UNDEF	?UNDEF	?UNDEF	33.20	0.00	098.00	098.74	40.00	0.00	?UNDEF	?UNDEF		
11	1.50	0.00	104.17	?UNDEF	?UNDEF	?UNDEF	32.70	0.00	098.13	098.90	39.90	0.00	?UNDEF	?UNDEF		
12	1.40	0.00	104.46	?UNDEF	?UNDEF	?UNDEF	35.00	0.00	098.34	099.50	40.70	0.00	?UNDEF	?UNDEF		
13	1.40	0.00	104.80	?UNDEF	?UNDEF	?UNDEF	35.10	0.00	098.49	100.05	40.00	0.00	?UNDEF	?UNDEF		
14	1.40	0.00	105.02	?UNDEF	?UNDEF	?UNDEF	35.10	0.00	098.34	099.64	39.80	0.00	?UNDEF	?UNDEF		
15	1.50	0.00	104.84	?UNDEF	?UNDEF	?UNDEF	35.70	0.00	098.42	099.43	39.60	0.00	?UNDEF	?UNDEF		
16	1.40	0.00	104.71	?UNDEF	?UNDEF	?UNDEF	35.10	0.00	098.49	099.29	39.50	0.00	?UNDEF	?UNDEF		
17	1.40	0.00	104.43	?UNDEF	?UNDEF	?UNDEF	39.30	0.00	098.43	100.09	40.50	0.00	?UNDEF	?UNDEF		
18	1.40	0.00	104.29	?UNDEF	?UNDEF	?UNDEF	34.90	0.00	098.45	100.31	39.50	0.00	?UNDEF	?UNDEF		
19	1.40	0.00	104.43	?UNDEF	?UNDEF	?UNDEF	31.50	0.00	098.37	099.99	36.90	0.00	?UNDEF	?UNDEF		
20	1.40	0.00	104.18	?UNDEF	?UNDEF	?UNDEF	26.10	0.00	098.30	099.70	32.10	0.00	?UNDEF	?UNDEF		
21	1.40	0.00	104.14	?UNDEF	?UNDEF	?UNDEF	26.30	0.00	098.21	099.10	29.50	0.00	?UNDEF	?UNDEF		
22	1.40	0.00	104.16	?UNDEF	?UNDEF	?UNDEF	20.90	0.00	097.99	098.89	21.90	0.00	?UNDEF	?UNDEF		
23	1.40	0.00	104.10	?UNDEF	?UNDEF	?UNDEF	14.30	0.00	097.88	098.63	14.50	0.00	?UNDEF	?UNDEF		
24	1.40	0.00	104.06	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	097.85	098.51	12.90	0.00	?UNDEF	?UNDEF		
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT		
1	13.80	0.00	?UNDEF	?UNDEF	9.50	0.00	096.53	097.80	78.30	0.00	096.65	096.81	097.91	096.79		
2	13.50	0.00	?UNDEF	?UNDEF	9.40	0.00	096.58	097.71	80.30	0.00	096.65	096.83	098.06	096.70		
3	13.50	0.00	?UNDEF	?UNDEF	9.40	0.00	096.63	097.74	80.20	0.00	096.67	096.85	098.06	096.60		
4	13.50	0.00	?UNDEF	?UNDEF	9.40	0.00	096.68	097.80	98.80	0.00	096.76	096.83	098.11	096.50		
5	15.00	0.00	?UNDEF	?UNDEF	10.50	0.00	096.78	097.96	138.60	0.00	096.74	096.95	098.15	096.51		
6	14.60	0.00	?UNDEF	?UNDEF	12.50	0.00	096.81	097.93	148.90	0.00	096.76	096.92	098.01	096.53		
7	21.20	0.00	?UNDEF	?UNDEF	12.60	0.00	096.86	098.05	155.90	0.00	096.89	097.05	097.90	096.62		
8	38.50	0.00	?UNDEF	?UNDEF	27.50	0.00	096.99	098.36	159.10	0.00	097.10	097.13	097.97	096.66		
9	39.30	0.00	?UNDEF	?UNDEF	38.50	0.00	097.08	098.36	158.90	0.00	097.33	097.41	098.10	096.63		
10	39.20	0.00	?UNDEF	?UNDEF	37.70	0.00	097.12	098.59	157.90	0.00	097.58	097.66	098.34	096.73		
11	40.60	0.00	?UNDEF	?UNDEF	39.30	0.00	097.26	098.72	156.80	0.00	097.67	097.73	098.31	096.86		
12	41.60	0.00	?UNDEF	?UNDEF	41.60	0.00	097.39	098.68	157.10	0.00	097.70	097.73	098.31	096.87		
13	41.90	0.00	?UNDEF	?UNDEF	42.70	0.00	097.49	098.76	156.30	0.00	097.96	097.74	098.47	096.96		
14	41.80	0.00	?UNDEF	?UNDEF	41.90	0.00	097.58	098.74	155.10	0.00	097.96	097.73	098.41	097.11		
15	43.30	0.00	?UNDEF	?UNDEF	42.90	0.00	097.62	098.81	153.60	0.00	097.91	097.82	098.41	097.17		
16	42.50	0.00	?UNDEF	?UNDEF	41.40	0.00	097.58	098.76	147.80	0.00	097.81	097.86	098.40	097.19		
17	41.70	0.00	?UNDEF	?UNDEF	43.00	0.00	097.53	098.80	159.50	0.00	097.67	097.71	098.28	097.12		
18	41.80	0.00	?UNDEF	?UNDEF	41.60	0.00	097.43	098.56	162.80	0.00	097.54	097.59	097.98	097.06		
19	41.80	0.00	?UNDEF	?UNDEF	42.30	0.00	097.33	098.59	162.80	0.00	097.43	097.31	097.87	096.99		
20	39.90	0.00	?UNDEF	?UNDEF	41.30	0.00	097.36	098.38	162.20	0.00	097.32	097.22	097.80	096.76		
21	28.00	0.00	?UNDEF	?UNDEF	38.20	0.00	097.29	098.30	161.00	0.00	097.27	097.04	097.78	096.71		
22	26.60	0.00	?UNDEF	?UNDEF	31.90	0.00	097.26	098.25	123.10	0.00	097.07	096.98	097.66	096.64		
23	21.60	0.00	?UNDEF	?UNDEF	25.60	0.00	097.15	098.03	107.40	0.00	097.00	096.87	097.57	096.55		
24	15.60	0.00	?UNDEF	?UNDEF	13.90	0.00	097.11	097.99	80.50	0.00	096.97	096.87	097.72	096.55		

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	DWRSHAK			STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR :	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1 :	1.40	0.00	105.12	?UNDEF	?UNDEF	?UNDEF	13.70	0.00	098.59	099.23	12.70	0.00	?UNDEF	?UNDEF
2 :	1.40	0.00	104.90	?UNDEF	?UNDEF	?UNDEF	13.80	0.00	098.40	099.02	12.60	0.00	?UNDEF	?UNDEF
3 :	1.40	0.00	104.81	?UNDEF	?UNDEF	?UNDEF	14.10	0.00	098.31	098.82	12.50	0.00	?UNDEF	?UNDEF
4 :	1.40	0.00	104.77	?UNDEF	?UNDEF	?UNDEF	14.30	0.00	098.12	098.61	12.50	0.00	?UNDEF	?UNDEF
5 :	1.40	0.00	104.56	?UNDEF	?UNDEF	?UNDEF	14.40	0.00	097.95	098.44	13.40	0.00	?UNDEF	?UNDEF
6 :	1.40	0.00	104.62	?UNDEF	?UNDEF	?UNDEF	14.50	0.00	097.75	098.25	13.20	0.00	?UNDEF	?UNDEF
7 :	1.40	0.00	104.50	?UNDEF	?UNDEF	?UNDEF	14.50	0.00	097.55	098.04	13.30	0.00	?UNDEF	?UNDEF
8 :	1.40	0.00	104.27	?UNDEF	?UNDEF	?UNDEF	14.80	0.00	097.42	097.94	13.30	0.00	?UNDEF	?UNDEF
9 :	1.40	0.00	104.28	?UNDEF	?UNDEF	?UNDEF	14.50	0.00	097.13	097.91	13.30	0.00	?UNDEF	?UNDEF
10 :	1.40	0.00	104.46	?UNDEF	?UNDEF	?UNDEF	14.50	0.00	097.06	097.81	13.50	0.00	?UNDEF	?UNDEF
11 :	1.40	0.00	104.71	?UNDEF	?UNDEF	?UNDEF	14.60	0.00	096.95	097.84	13.30	0.00	?UNDEF	?UNDEF
12 :	1.40	0.00	104.12	?UNDEF	?UNDEF	?UNDEF	14.50	0.00	096.91	097.80	13.40	0.00	?UNDEF	?UNDEF
13 :	1.40	0.00	103.69	?UNDEF	?UNDEF	?UNDEF	15.90	0.00	096.92	097.84	14.00	0.00	?UNDEF	?UNDEF
14 :	1.40	0.00	103.51	?UNDEF	?UNDEF	?UNDEF	30.60	0.00	097.04	097.92	31.50	0.00	?UNDEF	?UNDEF
15 :	1.40	0.00	103.18	?UNDEF	?UNDEF	?UNDEF	31.20	0.00	096.96	097.83	32.80	0.00	?UNDEF	?UNDEF
16 :	1.40	0.00	102.92	?UNDEF	?UNDEF	?UNDEF	31.20	0.00	096.87	097.66	32.30	0.00	?UNDEF	?UNDEF
17 :	1.40	0.00	102.69	?UNDEF	?UNDEF	?UNDEF	38.20	0.00	096.93	097.58	38.30	0.00	?UNDEF	?UNDEF
18 :	1.40	0.00	102.53	?UNDEF	?UNDEF	?UNDEF	38.50	0.00	096.97	097.74	37.00	0.00	?UNDEF	?UNDEF
19 :	1.40	0.00	102.69	?UNDEF	?UNDEF	?UNDEF	40.30	0.00	097.08	097.70	36.90	0.00	?UNDEF	?UNDEF
20 :	1.50	0.00	102.42	?UNDEF	?UNDEF	?UNDEF	28.90	0.00	097.05	097.82	34.30	0.00	?UNDEF	?UNDEF
21 :	1.40	0.00	102.27	?UNDEF	?UNDEF	?UNDEF	21.70	0.00	097.11	097.87	27.20	0.00	?UNDEF	?UNDEF
22 :	1.40	0.00	102.19	?UNDEF	?UNDEF	?UNDEF	14.10	0.00	097.09	097.76	16.80	0.00	?UNDEF	?UNDEF
23 :	1.40	0.00	102.30	?UNDEF	?UNDEF	?UNDEF	15.50	0.00	097.26	097.74	13.00	0.00	?UNDEF	?UNDEF
24 :	1.40	0.00	102.47	?UNDEF	?UNDEF	?UNDEF	13.70	0.00	097.30	097.81	12.70	0.00	?UNDEF	?UNDEF
	LOWER MONUMENTAL			ICE HARBOR				MCNARY				PASCO		
HOUR :	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1 :	14.00	0.00	?UNDEF	?UNDEF	13.00	0.00	098.03	099.18	72.00	0.00	098.12	098.28	098.89	098.50
2 :	13.80	0.00	?UNDEF	?UNDEF	13.00	0.00	097.93	098.90	73.00	0.00	097.82	098.09	098.85	098.22
3 :	14.00	0.00	?UNDEF	?UNDEF	14.40	0.00	097.64	098.68	77.60	0.00	097.67	097.93	098.82	098.06
4 :	14.00	0.00	?UNDEF	?UNDEF	12.90	0.00	097.46	098.52	97.70	0.00	097.37	097.64	098.58	097.97
5 :	14.10	0.00	?UNDEF	?UNDEF	12.90	0.00	097.29	098.35	108.10	0.00	097.26	097.58	098.63	097.83
6 :	13.90	0.00	?UNDEF	?UNDEF	12.80	0.00	097.08	098.19	124.50	0.00	097.04	097.33	097.99	097.49
7 :	13.90	0.00	?UNDEF	?UNDEF	12.80	0.00	096.94	098.03	126.10	0.00	096.93	097.20	097.73	097.30
8 :	13.70	0.00	?UNDEF	?UNDEF	14.50	0.00	096.81	098.83	98.40	0.00	096.79	097.14	097.55	097.23
9 :	13.80	0.00	?UNDEF	?UNDEF	12.80	0.00	096.69	098.70	96.20	0.00	096.65	096.94	097.51	096.94
10 :	18.10	0.00	?UNDEF	?UNDEF	22.40	0.00	096.56	098.21	95.60	0.00	096.56	096.71	097.66	096.92
11 :	18.90	0.00	?UNDEF	?UNDEF	22.30	0.00	096.47	098.28	84.60	0.00	096.44	096.65	097.45	096.90
12 :	18.50	0.00	?UNDEF	?UNDEF	22.30	0.00	096.47	099.11	85.80	0.00	096.34	096.38	097.58	096.99
13 :	18.80	0.00	?UNDEF	?UNDEF	27.50	0.00	096.40	098.19	85.90	0.00	096.18	096.33	097.55	097.10
14 :	29.30	0.00	?UNDEF	?UNDEF	34.30	0.00	096.41	098.14	79.40	0.00	096.39	096.45	097.52	097.10
15 :	29.40	0.00	?UNDEF	?UNDEF	35.70	0.00	096.37	098.08	97.50	0.00	096.40	096.45	097.65	097.15
16 :	37.30	0.00	?UNDEF	?UNDEF	34.10	0.00	096.45	097.74	125.30	0.00	096.50	096.43	097.64	097.28
17 :	40.30	0.00	?UNDEF	?UNDEF	39.20	0.00	096.42	097.70	138.90	0.00	096.49	096.40	097.39	097.28
18 :	40.90	0.00	?UNDEF	?UNDEF	39.80	0.00	096.42	097.70	140.60	0.00	096.54	096.43	097.40	097.23
19 :	40.50	0.00	?UNDEF	?UNDEF	37.10	0.00	096.45	097.72	129.20	0.00	096.51	096.41	097.27	097.15
20 :	40.30	0.00	?UNDEF	?UNDEF	37.80	0.00	096.36	097.74	127.90	0.00	096.56	096.48	097.26	097.14
21 :	39.00	0.00	?UNDEF	?UNDEF	37.40	0.00	096.36	097.77	122.30	0.00	096.59	096.46	097.32	097.02
22 :	21.90	0.00	?UNDEF	?UNDEF	25.90	0.00	096.53	097.66	89.20	0.00	096.48	096.68	097.35	097.05
23 :	13.80	0.00	?UNDEF	?UNDEF	13.20	0.00	096.44	097.71	73.80	0.00	096.54	096.70	097.41	096.83
24 :	13.40	0.00	?UNDEF	?UNDEF	12.80	0.00	096.51	097.78	72.90	0.00	096.58	096.76	097.61	096.83

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HOUR	DWRSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
	TOTAL DISCH.	SPILL	GAS %SAT	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH.	SPILL	GAS FB	%SAT TAILW.	TOTAL DISCH.	SPILL	GAS FB	%SAT TAILW.
	KCFS	KCFS	TAILW.				KCFS	KCFS			KCFS	KCFS		
1	1.40	0.00	104.72	?UNDEF	?UNDEF	?UNDEF	12.90	0.00	097.59	098.26	13.10	0.00	?UNDEF	?UNDEF
2	1.40	0.00	104.68	?UNDEF	?UNDEF	?UNDEF	13.50	0.00	097.73	098.53	13.30	0.00	?UNDEF	?UNDEF
3	1.40	0.00	104.71	?UNDEF	?UNDEF	?UNDEF	13.60	0.00	097.74	098.65	13.00	0.00	?UNDEF	?UNDEF
4	1.40	0.00	104.59	?UNDEF	?UNDEF	?UNDEF	13.60	0.00	097.76	098.41	13.10	0.00	?UNDEF	?UNDEF
5	1.40	0.00	104.60	?UNDEF	?UNDEF	?UNDEF	13.60	0.00	097.74	098.27	13.10	0.00	?UNDEF	?UNDEF
6	1.40	0.00	104.62	?UNDEF	?UNDEF	?UNDEF	13.90	0.00	097.61	098.17	13.10	0.00	?UNDEF	?UNDEF
7	1.40	0.00	104.57	?UNDEF	?UNDEF	?UNDEF	17.00	0.00	097.81	098.30	13.40	0.00	?UNDEF	?UNDEF
8	1.40	0.00	104.53	?UNDEF	?UNDEF	?UNDEF	17.50	0.00	097.80	098.31	13.30	0.00	?UNDEF	?UNDEF
9	1.40	0.00	104.46	?UNDEF	?UNDEF	?UNDEF	17.60	0.00	097.73	098.25	18.20	0.00	?UNDEF	?UNDEF
10	1.40	0.00	104.50	?UNDEF	?UNDEF	?UNDEF	19.30	0.00	097.66	098.32	18.60	0.00	?UNDEF	?UNDEF
11	1.40	0.00	104.70	?UNDEF	?UNDEF	?UNDEF	20.10	0.00	097.61	098.41	18.80	0.00	?UNDEF	?UNDEF
12	1.40	0.00	104.57	?UNDEF	?UNDEF	?UNDEF	25.40	0.00	097.68	098.29	27.40	0.00	?UNDEF	?UNDEF
13	1.40	0.00	104.65	?UNDEF	?UNDEF	?UNDEF	26.00	0.00	097.70	098.34	28.50	0.00	?UNDEF	?UNDEF
14	1.40	0.00	104.70	?UNDEF	?UNDEF	?UNDEF	26.00	0.00	097.85	098.46	28.00	0.00	?UNDEF	?UNDEF
15	1.40	0.00	104.78	?UNDEF	?UNDEF	?UNDEF	28.50	0.00	097.90	098.37	32.10	0.00	?UNDEF	?UNDEF
16	1.40	0.00	104.86	?UNDEF	?UNDEF	?UNDEF	27.80	0.00	097.97	098.43	29.60	0.00	?UNDEF	?UNDEF
17	1.40	0.00	104.80	?UNDEF	?UNDEF	?UNDEF	27.20	0.00	098.01	098.53	29.60	0.00	?UNDEF	?UNDEF
18	1.40	0.00	104.84	?UNDEF	?UNDEF	?UNDEF	26.20	0.00	098.07	098.55	30.30	0.00	?UNDEF	?UNDEF
19	1.40	0.00	104.80	?UNDEF	?UNDEF	?UNDEF	29.20	0.00	098.25	098.76	27.30	0.00	?UNDEF	?UNDEF
20	1.40	0.00	104.93	?UNDEF	?UNDEF	?UNDEF	21.40	0.00	098.32	099.21	26.90	0.00	?UNDEF	?UNDEF
21	1.40	0.00	105.01	?UNDEF	?UNDEF	?UNDEF	16.70	0.00	098.55	099.35	26.50	0.00	?UNDEF	?UNDEF
22	1.40	0.00	105.01	?UNDEF	?UNDEF	?UNDEF	15.80	0.00	098.59	099.36	18.30	0.00	?UNDEF	?UNDEF
23	1.40	0.00	105.09	?UNDEF	?UNDEF	?UNDEF	13.70	0.00	098.61	099.42	14.70	0.00	?UNDEF	?UNDEF
24	1.40	0.00	105.11	?UNDEF	?UNDEF	?UNDEF	13.60	0.00	098.61	099.29	12.70	0.00	?UNDEF	?UNDEF
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO	
	TOTAL DISCH.	SPILL	GAS FB	%SAT TAILW.	TOTAL DISCH.	SPILL	GAS FB	%SAT TAILW.	TOTAL DISCH.	SPILL	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT
	KCFS	KCFS			KCFS	KCFS			KCFS	KCFS				
1	14.20	0.00	?UNDEF	?UNDEF	12.70	0.00	097.36	098.65	60.20	0.00	097.40	097.43	098.29	097.21
2	13.80	0.00	?UNDEF	?UNDEF	12.70	0.00	097.31	098.65	59.70	0.00	097.51	097.29	098.41	097.11
3	13.70	0.00	?UNDEF	?UNDEF	12.60	0.00	097.47	098.61	60.10	0.00	097.47	097.24	098.65	097.08
4	13.60	0.00	?UNDEF	?UNDEF	12.90	0.00	097.47	098.62	78.40	0.00	097.40	097.39	098.90	097.13
5	14.00	0.00	?UNDEF	?UNDEF	12.80	0.00	097.41	098.60	87.90	0.00	097.36	097.41	099.05	097.25
6	14.00	0.00	?UNDEF	?UNDEF	12.80	0.00	097.40	098.58	91.70	0.00	097.32	097.24	098.72	097.22
7	14.50	0.00	?UNDEF	?UNDEF	12.80	0.00	097.41	098.54	91.80	0.00	097.35	097.38	098.51	097.16
8	20.70	0.00	?UNDEF	?UNDEF	20.20	0.00	097.40	098.60	91.50	0.00	097.35	097.37	098.48	097.20
9	20.80	0.00	?UNDEF	?UNDEF	20.30	0.00	097.37	099.08	106.30	0.00	097.29	097.33	098.45	097.14
10	20.80	0.00	?UNDEF	?UNDEF	20.30	0.00	097.32	098.86	103.10	0.00	097.39	097.29	098.40	097.07
11	19.80	0.00	?UNDEF	?UNDEF	22.10	0.00	097.39	098.94	103.20	0.00	097.56	097.22	098.49	097.29
12	30.70	0.00	?UNDEF	?UNDEF	28.00	0.00	097.45	099.02	102.90	0.00	097.54	097.34	098.58	097.38
13	30.60	0.00	?UNDEF	?UNDEF	27.80	0.00	097.58	099.20	89.30	0.00	098.24	097.62	098.87	097.66
14	30.80	0.00	?UNDEF	?UNDEF	28.80	0.00	097.72	099.26	87.50	0.00	098.06	097.86	099.07	097.88
15	36.60	0.00	?UNDEF	?UNDEF	30.00	0.00	097.69	099.26	87.20	0.00	097.97	098.00	099.07	098.06
16	33.40	0.00	?UNDEF	?UNDEF	30.60	0.00	097.74	099.22	87.90	0.00	097.97	098.02	098.95	098.32
17	33.10	0.00	?UNDEF	?UNDEF	30.00	0.00	097.81	099.14	116.90	0.00	098.04	098.12	099.12	098.30
18	30.60	0.00	?UNDEF	?UNDEF	30.10	0.00	097.85	099.17	127.20	0.00	098.12	098.29	099.00	098.43
19	30.20	0.00	?UNDEF	?UNDEF	30.00	0.00	097.89	099.15	128.20	0.00	098.14	098.33	098.91	098.55
20	29.60	0.00	?UNDEF	?UNDEF	30.50	0.00	098.17	099.31	123.40	0.00	098.28	098.47	098.91	098.68
21	28.30	0.00	?UNDEF	?UNDEF	27.60	0.00	098.21	099.35	112.70	0.00	098.28	098.44	098.91	098.67
22	28.20	0.00	?UNDEF	?UNDEF	27.70	0.00	098.17	099.29	98.50	0.00	098.24	098.53	098.84	098.66
23	19.90	0.00	?UNDEF	?UNDEF	20.40	0.00	098.18	099.34	83.50	0.00	098.28	098.59	098.90	098.70
24	14.00	0.00	?UNDEF	?UNDEF	13.50	0.00	098.14	099.26	69.90	0.00	098.27	098.59	098.99	098.70

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	DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.		
1	1.40	0.00	104.93	?UNDEF	?UNDEF	?UNDEF	17.20	0.00	097.08	098.16	14.30	0.00	?UNDEF	?UNDEF		
2	1.40	0.00	104.79	?UNDEF	?UNDEF	?UNDEF	17.10	0.00	096.98	097.88	14.20	0.00	?UNDEF	?UNDEF		
3	1.40	0.00	104.72	?UNDEF	?UNDEF	?UNDEF	17.20	0.00	096.91	097.82	14.20	0.00	?UNDEF	?UNDEF		
4	1.40	0.00	104.60	?UNDEF	?UNDEF	?UNDEF	17.40	0.00	096.73	097.66	14.50	0.00	?UNDEF	?UNDEF		
5	1.40	0.00	104.60	?UNDEF	?UNDEF	?UNDEF	17.10	0.00	096.62	097.65	14.20	0.00	?UNDEF	?UNDEF		
6	1.40	0.00	104.57	?UNDEF	?UNDEF	?UNDEF	17.10	0.00	096.61	097.64	15.80	0.00	?UNDEF	?UNDEF		
7	1.40	0.00	104.43	?UNDEF	?UNDEF	?UNDEF	17.50	0.00	096.49	097.59	14.60	0.00	?UNDEF	?UNDEF		
8	1.40	0.00	104.30	?UNDEF	?UNDEF	?UNDEF	28.10	0.00	096.57	097.36	25.20	0.00	?UNDEF	?UNDEF		
9	1.50	0.00	104.22	?UNDEF	?UNDEF	?UNDEF	28.60	0.00	096.52	097.43	27.50	0.00	?UNDEF	?UNDEF		
10	1.40	0.00	104.38	?UNDEF	?UNDEF	?UNDEF	29.10	0.00	096.59	097.60	28.10	0.00	?UNDEF	?UNDEF		
11	1.40	0.00	104.42	?UNDEF	?UNDEF	?UNDEF	28.70	0.00	096.72	097.62	27.60	0.00	?UNDEF	?UNDEF		
12	1.40	0.00	104.49	?UNDEF	?UNDEF	?UNDEF	28.60	0.00	096.90	097.69	27.50	0.00	?UNDEF	?UNDEF		
13	1.40	0.00	104.55	?UNDEF	?UNDEF	?UNDEF	28.60	0.00	097.07	097.82	27.40	0.00	?UNDEF	?UNDEF		
14	1.40	0.00	104.68	?UNDEF	?UNDEF	?UNDEF	28.60	0.00	097.08	097.71	27.40	0.00	?UNDEF	?UNDEF		
15	1.40	0.00	104.98	?UNDEF	?UNDEF	?UNDEF	29.10	0.00	097.13	097.79	27.90	0.00	?UNDEF	?UNDEF		
16	1.40	0.00	104.83	?UNDEF	?UNDEF	?UNDEF	28.60	0.00	097.16	097.80	27.50	0.00	?UNDEF	?UNDEF		
17	1.40	0.00	104.58	?UNDEF	?UNDEF	?UNDEF	28.70	0.00	097.27	097.87	27.40	0.00	?UNDEF	?UNDEF		
18	1.40	0.00	104.48	?UNDEF	?UNDEF	?UNDEF	28.70	0.00	097.30	097.81	27.50	0.00	?UNDEF	?UNDEF		
19	1.40	0.00	104.58	?UNDEF	?UNDEF	?UNDEF	28.60	0.00	097.38	097.90	27.30	0.00	?UNDEF	?UNDEF		
20	1.40	0.00	104.52	?UNDEF	?UNDEF	?UNDEF	25.50	0.00	097.42	097.93	28.00	0.00	?UNDEF	?UNDEF		
21	1.40	0.00	104.70	?UNDEF	?UNDEF	?UNDEF	21.10	0.00	097.42	098.05	27.50	0.00	?UNDEF	?UNDEF		
22	1.40	0.00	104.72	?UNDEF	?UNDEF	?UNDEF	17.00	0.00	097.41	098.05	27.40	0.00	?UNDEF	?UNDEF		
23	1.40	0.00	104.55	?UNDEF	?UNDEF	?UNDEF	14.20	0.00	097.50	098.13	18.10	0.00	?UNDEF	?UNDEF		
24	1.40	0.00	104.65	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	097.59	098.22	14.50	0.00	?UNDEF	?UNDEF		
	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT		
1	14.30	0.00	?UNDEF	?UNDEF	10.90	0.00	097.17	098.68	69.00	0.00	096.85	096.80	097.88	096.40		
2	14.30	0.00	?UNDEF	?UNDEF	9.40	0.00	097.08	098.61	66.00	0.00	096.92	096.73	098.20	096.17		
3	16.00	0.00	?UNDEF	?UNDEF	9.40	0.00	097.00	098.52	65.40	0.00	096.71	096.62	098.25	096.08		
4	14.30	0.00	?UNDEF	?UNDEF	9.40	0.00	096.95	098.51	73.40	0.00	096.68	096.71	098.30	095.91		
5	14.20	0.00	?UNDEF	?UNDEF	9.40	0.00	096.92	098.60	77.70	0.00	096.63	096.53	098.17	095.74		
6	14.30	0.00	?UNDEF	?UNDEF	9.40	0.00	096.89	098.44	107.00	0.00	096.63	096.55	098.44	095.72		
7	15.50	0.00	?UNDEF	?UNDEF	11.10	0.00	096.68	098.39	126.50	0.00	096.57	096.51	097.98	095.49		
8	27.90	0.00	?UNDEF	?UNDEF	13.30	0.00	096.65	098.51	127.60	0.00	096.69	096.62	097.68	095.48		
9	27.80	0.00	?UNDEF	?UNDEF	26.80	0.00	096.65	098.69	116.50	0.00	096.65	096.60	097.68	095.35		
10	28.30	0.00	?UNDEF	?UNDEF	27.50	0.00	096.68	098.83	114.80	0.00	096.71	096.64	097.85	095.41		
11	30.10	0.00	?UNDEF	?UNDEF	27.10	0.00	096.70	098.74	111.10	0.00	096.69	096.64	097.98	095.53		
12	27.60	0.00	?UNDEF	?UNDEF	27.50	0.00	096.77	098.80	114.40	0.00	097.08	096.72	097.96	095.59		
13	27.60	0.00	?UNDEF	?UNDEF	27.90	0.00	096.76	098.76	114.40	0.00	097.39	096.76	097.96	095.88		
14	27.70	0.00	?UNDEF	?UNDEF	27.50	0.00	096.79	098.66	107.20	0.00	097.39	096.92	098.04	096.03		
15	27.70	0.00	?UNDEF	?UNDEF	28.30	0.00	096.85	098.16	106.00	0.00	097.33	097.01	098.09	096.23		
16	27.70	0.00	?UNDEF	?UNDEF	27.70	0.00	096.93	098.24	106.30	0.00	097.26	097.04	098.04	096.51		
17	28.60	0.00	?UNDEF	?UNDEF	29.20	0.00	096.99	098.28	106.50	0.00	097.16	097.08	098.18	096.63		
18	28.10	0.00	?UNDEF	?UNDEF	27.80	0.00	097.02	098.04	114.40	0.00	097.06	097.15	098.25	096.83		
19	28.00	0.00	?UNDEF	?UNDEF	28.10	0.00	097.08	098.12	130.30	0.00	097.19	097.11	098.20	096.92		
20	28.20	0.00	?UNDEF	?UNDEF	28.10	0.00	097.12	098.53	117.90	0.00	097.35	097.08	098.23	096.95		
21	28.20	0.00	?UNDEF	?UNDEF	29.60	0.00	097.21	098.50	109.30	0.00	097.55	097.33	098.20	097.01		
22	28.00	0.00	?UNDEF	?UNDEF	28.10	0.00	097.21	098.49	108.60	0.00	097.52	097.17	098.15	097.01		
23	27.80	0.00	?UNDEF	?UNDEF	28.00	0.00	097.27	098.54	95.30	0.00	097.31	097.20	098.32	097.05		
24	18.80	0.00	?UNDEF	?UNDEF	19.80	0.00	097.43	098.63	68.40	0.00	097.39	097.25	098.27	097.05		

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HOUR	DWRSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.40	0.00	107.39	?UNDEF	?UNDEF	?UNDEF	.40	0.00	999.09	100.07	.40	0.00	?UNDEF	?UNDEF
2	1.40	0.00	107.32	?UNDEF	?UNDEF	?UNDEF	2.10	0.00	999.01	999.96	.40	0.00	?UNDEF	?UNDEF
3	1.40	0.00	107.12	?UNDEF	?UNDEF	?UNDEF	.40	0.00	998.98	999.70	.40	0.00	?UNDEF	?UNDEF
4	1.40	0.00	107.04	?UNDEF	?UNDEF	?UNDEF	.60	0.00	998.90	999.67	1.00	0.00	?UNDEF	?UNDEF
5	1.40	0.00	106.97	?UNDEF	?UNDEF	?UNDEF	24.80	0.00	998.71	999.86	14.20	0.00	?UNDEF	?UNDEF
6	1.40	0.00	106.82	?UNDEF	?UNDEF	?UNDEF	30.80	0.00	998.57	100.05	20.90	0.00	?UNDEF	?UNDEF
7	1.40	0.00	106.80	?UNDEF	?UNDEF	?UNDEF	40.10	0.00	998.47	999.55	27.30	0.00	?UNDEF	?UNDEF
8	1.40	0.00	106.52	?UNDEF	?UNDEF	?UNDEF	40.90	0.00	998.40	999.41	41.30	0.00	?UNDEF	?UNDEF
9	1.40	0.00	106.52	?UNDEF	?UNDEF	?UNDEF	40.40	0.00	998.17	999.24	40.60	0.00	?UNDEF	?UNDEF
10	1.40	0.00	106.83	?UNDEF	?UNDEF	?UNDEF	24.40	0.00	997.96	999.08	30.40	0.00	?UNDEF	?UNDEF
11	1.40	0.00	106.80	?UNDEF	?UNDEF	?UNDEF	20.80	0.00	997.84	998.85	22.20	0.00	?UNDEF	?UNDEF
12	1.40	0.00	107.17	?UNDEF	?UNDEF	?UNDEF	20.90	0.00	997.94	998.87	20.90	0.00	?UNDEF	?UNDEF
13	1.40	0.00	107.35	?UNDEF	?UNDEF	?UNDEF	13.70	0.00	997.96	998.98	16.00	0.00	?UNDEF	?UNDEF
14	1.40	0.00	107.19	?UNDEF	?UNDEF	?UNDEF	13.20	0.00	997.82	998.78	13.90	0.00	?UNDEF	?UNDEF
15	1.40	0.00	107.11	?UNDEF	?UNDEF	?UNDEF	13.30	0.00	997.86	998.79	14.00	0.00	?UNDEF	?UNDEF
16	1.40	0.00	107.07	?UNDEF	?UNDEF	?UNDEF	13.40	0.00	997.78	998.73	14.00	0.00	?UNDEF	?UNDEF
17	1.40	0.00	106.59	?UNDEF	?UNDEF	?UNDEF	20.00	0.00	997.70	998.48	21.40	0.00	?UNDEF	?UNDEF
18	1.50	0.00	106.32	?UNDEF	?UNDEF	?UNDEF	38.80	0.00	997.68	998.54	42.50	0.00	?UNDEF	?UNDEF
19	1.40	0.00	106.59	?UNDEF	?UNDEF	?UNDEF	41.90	0.00	997.60	998.50	43.10	0.00	?UNDEF	?UNDEF
20	1.40	0.00	105.00	?UNDEF	?UNDEF	?UNDEF	31.30	0.00	997.50	998.54	42.40	0.00	?UNDEF	?UNDEF
21	1.40	0.00	104.76	?UNDEF	?UNDEF	?UNDEF	26.40	0.00	997.41	998.31	31.00	0.00	?UNDEF	?UNDEF
22	1.40	0.00	104.68	?UNDEF	?UNDEF	?UNDEF	25.50	0.00	997.32	998.23	27.90	0.00	?UNDEF	?UNDEF
23	1.40	0.00	104.79	?UNDEF	?UNDEF	?UNDEF	20.00	0.00	997.25	998.29	17.80	0.00	?UNDEF	?UNDEF
24	1.40	0.00	104.96	?UNDEF	?UNDEF	?UNDEF	17.20	0.00	997.19	998.49	14.40	0.00	?UNDEF	?UNDEF
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO	
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	13.60	0.00	?UNDEF	?UNDEF	9.50	0.00	999.13	999.89	95.40	0.00	998.80	999.11	999.45	998.86
2	13.90	0.00	?UNDEF	?UNDEF	9.50	0.00	998.87	999.71	99.40	0.00	998.74	998.96	999.38	998.62
3	13.90	0.00	?UNDEF	?UNDEF	9.50	0.00	998.79	999.46	91.70	0.00	998.76	998.92	999.33	998.35
4	15.40	0.00	?UNDEF	?UNDEF	9.70	0.00	998.79	999.52	112.70	0.00	998.58	998.89	999.37	998.32
5	14.10	0.00	?UNDEF	?UNDEF	12.60	0.00	998.69	999.39	122.60	0.00	998.56	998.66	999.10	998.17
6	20.00	0.00	?UNDEF	?UNDEF	12.80	0.00	998.76	999.30	134.20	0.00	998.42	998.58	998.97	998.12
7	21.00	0.00	?UNDEF	?UNDEF	20.60	0.00	998.55	999.18	138.20	0.00	998.24	998.41	998.65	997.85
8	28.70	0.00	?UNDEF	?UNDEF	31.30	0.00	998.39	999.07	139.60	0.00	998.11	998.29	998.44	997.68
9	31.00	0.00	?UNDEF	?UNDEF	39.20	0.00	998.09	999.42	131.20	0.00	998.01	998.21	998.43	997.51
10	30.50	0.00	?UNDEF	?UNDEF	38.50	0.00	997.98	999.23	121.50	0.00	997.79	998.08	998.34	997.54
11	24.50	0.00	?UNDEF	?UNDEF	22.40	0.00	998.08	999.10	121.50	0.00	997.84	997.97	998.38	997.64
12	20.60	0.00	?UNDEF	?UNDEF	24.80	0.00	998.06	999.03	121.90	0.00	997.82	998.09	998.45	997.83
13	13.90	0.00	?UNDEF	?UNDEF	21.80	0.00	998.03	999.42	139.20	0.00	997.78	997.92	998.47	997.95
14	13.60	0.00	?UNDEF	?UNDEF	17.00	0.00	997.95	999.17	144.00	0.00	997.87	997.93	998.45	998.04
15	10.70	0.00	?UNDEF	?UNDEF	12.80	0.00	997.91	100.16	145.20	0.00	997.87	997.87	998.31	998.16
16	8.90	0.00	?UNDEF	?UNDEF	12.80	0.00	997.83	999.09	144.40	0.00	997.82	997.87	998.21	998.10
17	20.60	0.00	?UNDEF	?UNDEF	21.40	0.00	997.77	999.52	141.80	0.00	997.70	997.59	998.04	998.03
18	32.70	0.00	?UNDEF	?UNDEF	34.40	0.00	997.65	999.30	157.20	0.00	997.62	997.49	997.94	997.79
19	39.00	0.00	?UNDEF	?UNDEF	35.20	0.00	997.57	999.65	149.10	0.00	997.52	997.43	997.87	997.45
20	39.50	0.00	?UNDEF	?UNDEF	35.10	0.00	997.45	999.13	128.30	0.00	997.29	997.02	997.90	997.20
21	38.90	0.00	?UNDEF	?UNDEF	35.10	0.00	997.39	999.06	127.30	0.00	997.39	997.12	997.97	997.01
22	38.40	0.00	?UNDEF	?UNDEF	34.70	0.00	997.34	999.01	109.00	0.00	997.34	997.09	997.93	996.80
23	24.20	0.00	?UNDEF	?UNDEF	22.70	0.00	997.28	998.95	80.30	0.00	997.21	997.04	997.88	996.63
24	14.60	0.00	?UNDEF	?UNDEF	26.40	0.00	997.21	998.89	67.30	0.00	997.06	996.89	997.85	996.63

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	DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR :	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.		
1 :	1.40	0.00	104.75	?UNDEF	?UNDEF	?UNDEF	15.10	0.00	097.00	097.95	15.50	0.00	?UNDEF	?UNDEF		
2 :	1.40	0.00	104.94	?UNDEF	?UNDEF	?UNDEF	14.90	0.00	097.21	098.00	15.50	0.00	?UNDEF	?UNDEF		
3 :	1.40	0.00	105.00	?UNDEF	?UNDEF	?UNDEF	14.70	0.00	097.36	098.14	15.60	0.00	?UNDEF	?UNDEF		
4 :	1.40	0.00	105.10	?UNDEF	?UNDEF	?UNDEF	15.00	0.00	097.26	098.06	15.50	0.00	?UNDEF	?UNDEF		
5 :	1.40	0.00	105.13	?UNDEF	?UNDEF	?UNDEF	14.70	0.00	097.30	098.23	15.60	0.00	?UNDEF	?UNDEF		
6 :	1.40	0.00	105.16	?UNDEF	?UNDEF	?UNDEF	14.70	0.00	097.28	098.08	15.60	0.00	?UNDEF	?UNDEF		
7 :	1.40	0.00	105.21	?UNDEF	?UNDEF	?UNDEF	14.70	0.00	097.30	098.09	15.70	0.00	?UNDEF	?UNDEF		
8 :	1.40	0.00	105.20	?UNDEF	?UNDEF	?UNDEF	18.40	0.00	097.37	098.12	16.80	0.00	?UNDEF	?UNDEF		
9 :	1.40	0.00	105.20	?UNDEF	?UNDEF	?UNDEF	18.60	0.00	097.38	098.20	20.00	0.00	?UNDEF	?UNDEF		
10 :	1.40	0.00	105.31	?UNDEF	?UNDEF	?UNDEF	19.10	0.00	097.50	098.17	20.60	0.00	?UNDEF	?UNDEF		
11 :	1.40	0.00	105.46	?UNDEF	?UNDEF	?UNDEF	20.70	0.00	097.61	098.44	22.50	0.00	?UNDEF	?UNDEF		
12 :	1.50	0.00	105.72	?UNDEF	?UNDEF	?UNDEF	21.20	0.00	097.89	098.53	21.80	0.00	?UNDEF	?UNDEF		
13 :	1.40	0.00	106.32	?UNDEF	?UNDEF	?UNDEF	21.30	0.00	098.05	098.67	21.80	0.00	?UNDEF	?UNDEF		
14 :	1.40	0.00	106.91	?UNDEF	?UNDEF	?UNDEF	21.40	0.00	098.21	098.84	22.10	0.00	?UNDEF	?UNDEF		
15 :	1.40	0.00	106.92	?UNDEF	?UNDEF	?UNDEF	22.00	0.00	098.41	099.00	22.00	0.00	?UNDEF	?UNDEF		
16 :	1.40	0.00	107.10	?UNDEF	?UNDEF	?UNDEF	23.90	0.00	098.51	099.18	26.70	0.00	?UNDEF	?UNDEF		
17 :	1.40	0.00	107.25	?UNDEF	?UNDEF	?UNDEF	24.50	0.00	098.63	099.30	25.20	0.00	?UNDEF	?UNDEF		
18 :	1.40	0.00	107.07	?UNDEF	?UNDEF	?UNDEF	26.40	0.00	098.74	099.41	29.40	0.00	?UNDEF	?UNDEF		
19 :	1.40	0.00	107.25	?UNDEF	?UNDEF	?UNDEF	27.30	0.00	098.94	099.49	30.60	0.00	?UNDEF	?UNDEF		
20 :	1.40	0.00	107.29	?UNDEF	?UNDEF	?UNDEF	27.40	0.00	099.13	099.52	30.60	0.00	?UNDEF	?UNDEF		
21 :	1.40	0.00	107.30	?UNDEF	?UNDEF	?UNDEF	22.50	0.00	099.30	100.39	30.90	0.00	?UNDEF	?UNDEF		
22 :	1.40	0.00	107.24	?UNDEF	?UNDEF	?UNDEF	14.30	0.00	099.34	100.30	23.30	0.00	?UNDEF	?UNDEF		
23 :	1.40	0.00	107.37	?UNDEF	?UNDEF	?UNDEF	13.10	0.00	099.32	100.03	15.00	0.00	?UNDEF	?UNDEF		
24 :	1.40	0.00	107.45	?UNDEF	?UNDEF	?UNDEF	.40	0.00	099.24	100.10	3.40	0.00	?UNDEF	?UNDEF		
	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR :	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT		
1 :	14.30	0.00	?UNDEF	?UNDEF	13.50	0.00	097.04	098.00	66.30	0.00	097.37	097.20	098.40	097.19		
2 :	14.30	0.00	?UNDEF	?UNDEF	14.60	0.00	097.00	098.05	74.40	0.00	097.29	097.23	098.57	097.21		
3 :	14.50	0.00	?UNDEF	?UNDEF	12.60	0.00	097.07	098.09	64.80	0.00	097.26	097.28	098.92	097.26		
4 :	14.80	0.00	?UNDEF	?UNDEF	12.70	0.00	097.12	098.17	100.40	0.00	097.29	097.29	099.08	097.48		
5 :	14.60	0.00	?UNDEF	?UNDEF	12.90	0.00	097.13	098.22	150.60	0.00	097.41	097.30	098.85	097.53		
6 :	15.80	0.00	?UNDEF	?UNDEF	12.50	0.00	097.24	098.63	150.20	0.00	097.47	097.49	098.47	097.54		
7 :	14.40	0.00	?UNDEF	?UNDEF	12.80	0.00	097.32	098.71	152.70	0.00	097.56	097.61	098.72	097.75		
8 :	14.40	0.00	?UNDEF	?UNDEF	14.10	0.00	097.35	098.77	153.00	0.00	097.65	097.65	098.68	097.78		
9 :	14.30	0.00	?UNDEF	?UNDEF	12.60	0.00	097.45	098.87	152.20	0.00	097.69	097.74	098.63	097.90		
10 :	14.40	0.00	?UNDEF	?UNDEF	14.10	0.00	097.59	099.03	140.40	0.00	098.01	097.89	098.62	098.12		
11 :	17.80	0.00	?UNDEF	?UNDEF	12.90	0.00	097.68	099.13	134.10	0.00	098.18	098.08	098.91	098.40		
12 :	21.00	0.00	?UNDEF	?UNDEF	13.00	0.00	097.92	100.58	134.40	0.00	098.40	098.29	099.29	098.76		
13 :	22.90	0.00	?UNDEF	?UNDEF	13.40	0.00	098.12	102.74	135.30	0.00	098.61	098.41	099.69	099.02		
14 :	22.90	0.00	?UNDEF	?UNDEF	19.90	0.00	098.35	103.09	136.00	0.00	098.84	098.73	099.75	099.24		
15 :	21.10	0.00	?UNDEF	?UNDEF	23.20	0.00	098.52	102.51	136.30	0.00	099.08	098.88	099.72	099.32		
16 :	21.20	0.00	?UNDEF	?UNDEF	30.00	0.00	098.65	101.03	136.40	0.00	099.07	099.00	099.57	099.34		
17 :	27.40	0.00	?UNDEF	?UNDEF	26.00	0.00	098.68	100.37	137.40	0.00	099.11	099.16	099.74	099.44		
18 :	30.10	0.00	?UNDEF	?UNDEF	30.30	0.00	098.92	100.18	138.40	0.00	099.27	099.27	099.74	099.38		
19 :	31.80	0.00	?UNDEF	?UNDEF	32.00	0.00	099.11	100.38	137.80	0.00	099.38	099.46	099.92	099.46		
20 :	32.00	0.00	?UNDEF	?UNDEF	34.70	0.00	099.33	100.68	123.50	0.00	099.39	099.60	100.03	099.58		
21 :	31.70	0.00	?UNDEF	?UNDEF	34.90	0.00	099.25	100.40	106.50	0.00	099.25	099.58	100.05	099.48		
22 :	21.40	0.00	?UNDEF	?UNDEF	34.50	0.00	099.26	100.27	103.60	0.00	099.27	099.59	099.88	099.35		
23 :	14.10	0.00	?UNDEF	?UNDEF	21.60	0.00	099.21	100.23	104.10	0.00	099.17	099.43	099.84	099.14		
24 :	13.80	0.00	?UNDEF	?UNDEF	9.90	0.00	099.22	099.96	102.60	0.00	099.01	099.35	099.73	099.14		

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DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.
1	1.40	0.00	104.41	?UNDEF	?UNDEF	?UNDEF	12.80	0.00	095.75	097.05	12.60	0.00	?UNDEF	?UNDEF
2	1.40	0.00	104.35	?UNDEF	?UNDEF	?UNDEF	12.70	0.00	095.69	097.01	12.50	0.00	?UNDEF	?UNDEF
3	1.40	0.00	104.28	?UNDEF	?UNDEF	?UNDEF	12.80	0.00	095.63	096.85	12.70	0.00	?UNDEF	?UNDEF
4	1.40	0.00	104.27	?UNDEF	?UNDEF	?UNDEF	12.60	0.00	095.64	096.93	14.20	0.00	?UNDEF	?UNDEF
5	1.40	0.00	104.37	?UNDEF	?UNDEF	?UNDEF	12.60	0.00	095.61	096.77	13.00	0.00	?UNDEF	?UNDEF
6	1.40	0.00	104.37	?UNDEF	?UNDEF	?UNDEF	14.70	0.00	095.61	096.79	12.90	0.00	?UNDEF	?UNDEF
7	1.40	0.00	104.32	?UNDEF	?UNDEF	?UNDEF	17.10	0.00	095.60	096.77	12.60	0.00	?UNDEF	?UNDEF
8	1.40	0.00	104.14	?UNDEF	?UNDEF	?UNDEF	17.60	0.00	095.61	096.77	13.60	0.00	?UNDEF	?UNDEF
9	1.40	0.00	104.54	?UNDEF	?UNDEF	?UNDEF	17.30	0.00	095.61	096.83	15.90	0.00	?UNDEF	?UNDEF
10	1.40	0.00	104.84	?UNDEF	?UNDEF	?UNDEF	17.20	0.00	095.65	096.96	16.40	0.00	?UNDEF	?UNDEF
11	1.50	0.00	105.00	?UNDEF	?UNDEF	?UNDEF	17.40	0.00	095.84	097.04	14.70	0.00	?UNDEF	?UNDEF
12	1.40	0.00	104.98	?UNDEF	?UNDEF	?UNDEF	17.30	0.00	096.04	097.10	14.70	0.00	?UNDEF	?UNDEF
13	1.40	0.00	104.93	?UNDEF	?UNDEF	?UNDEF	17.20	0.00	096.10	097.14	14.70	0.00	?UNDEF	?UNDEF
14	1.40	0.00	104.80	?UNDEF	?UNDEF	?UNDEF	15.10	0.00	096.15	097.19	14.80	0.00	?UNDEF	?UNDEF
15	1.40	0.00	104.85	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	096.34	097.26	14.40	0.00	?UNDEF	?UNDEF
16	1.40	0.00	105.23	?UNDEF	?UNDEF	?UNDEF	14.50	0.00	096.32	097.12	15.70	0.00	?UNDEF	?UNDEF
17	1.50	0.00	105.24	?UNDEF	?UNDEF	?UNDEF	14.80	0.00	096.40	097.14	14.20	0.00	?UNDEF	?UNDEF
18	1.40	0.00	105.00	?UNDEF	?UNDEF	?UNDEF	14.90	0.00	096.43	097.20	14.10	0.00	?UNDEF	?UNDEF
19	1.40	0.00	105.24	?UNDEF	?UNDEF	?UNDEF	14.70	0.00	096.49	097.27	14.20	0.00	?UNDEF	?UNDEF
20	1.40	0.00	104.65	?UNDEF	?UNDEF	?UNDEF	19.20	0.00	096.61	097.48	17.90	0.00	?UNDEF	?UNDEF
21	1.50	0.00	104.72	?UNDEF	?UNDEF	?UNDEF	17.80	0.00	096.65	097.56	18.20	0.00	?UNDEF	?UNDEF
22	1.40	0.00	104.69	?UNDEF	?UNDEF	?UNDEF	19.40	0.00	096.70	098.00	18.10	0.00	?UNDEF	?UNDEF
23	1.40	0.00	104.73	?UNDEF	?UNDEF	?UNDEF	18.00	0.00	096.75	097.81	18.60	0.00	?UNDEF	?UNDEF
24	1.40	0.00	104.67	?UNDEF	?UNDEF	?UNDEF	17.80	0.00	096.90	097.78	19.70	0.00	?UNDEF	?UNDEF
LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	WA FB	%SAT TAILW.	GAS % SAT
1	13.70	0.00	?UNDEF	?UNDEF	10.50	0.00	096.01	097.44	124.20	0.00	096.51	096.41	097.23	096.02
2	13.90	0.00	?UNDEF	?UNDEF	12.00	0.00	095.99	097.40	111.30	0.00	096.47	096.21	097.18	095.99
3	14.10	0.00	?UNDEF	?UNDEF	10.60	0.00	095.96	097.35	106.80	0.00	096.43	096.07	097.14	095.81
4	15.30	0.00	?UNDEF	?UNDEF	10.40	0.00	095.91	097.31	108.50	0.00	096.43	096.07	097.26	095.78
5	13.80	0.00	?UNDEF	?UNDEF	10.40	0.00	095.96	097.41	114.40	0.00	096.49	096.09	097.33	095.88
6	13.80	0.00	?UNDEF	?UNDEF	10.40	0.00	096.00	097.42	121.50	0.00	096.43	096.09	097.17	095.69
7	13.90	0.00	?UNDEF	?UNDEF	10.40	0.00	096.00	097.54	142.10	0.00	096.43	096.11	097.30	095.77
8	14.60	0.00	?UNDEF	?UNDEF	12.80	0.00	096.06	098.36	139.30	0.00	096.48	096.11	097.33	095.79
9	18.70	0.00	?UNDEF	?UNDEF	12.70	0.00	096.04	098.03	135.60	0.00	096.47	096.11	097.20	095.75
10	15.40	0.00	?UNDEF	?UNDEF	13.00	0.00	096.06	098.11	136.10	0.00	096.51	096.13	097.23	095.92
11	14.90	0.00	?UNDEF	?UNDEF	25.00	0.00	096.09	098.09	119.70	0.00	096.53	096.17	097.31	095.97
12	14.90	0.00	?UNDEF	?UNDEF	20.10	0.00	096.18	099.15	119.10	0.00	096.71	096.13	097.47	096.33
13	16.30	0.00	?UNDEF	?UNDEF	21.60	0.00	096.26	098.75	114.50	0.00	096.79	096.19	097.56	096.55
14	14.80	0.00	?UNDEF	?UNDEF	20.10	0.00	096.29	098.10	114.60	0.00	096.82	096.16	097.58	096.55
15	24.10	0.00	?UNDEF	?UNDEF	20.50	0.00	096.29	098.66	112.20	0.00	096.86	096.23	097.31	096.76
16	28.50	0.00	?UNDEF	?UNDEF	20.20	0.00	096.35	097.89	127.50	0.00	096.76	096.28	097.25	096.77
17	32.00	0.00	?UNDEF	?UNDEF	21.80	0.00	096.40	098.75	141.40	0.00	096.89	096.51	097.48	096.86
18	27.90	0.00	?UNDEF	?UNDEF	20.20	0.00	096.50	098.46	141.90	0.00	097.01	096.64	097.63	096.96
19	27.40	0.00	?UNDEF	?UNDEF	20.30	0.00	096.64	098.19	140.50	0.00	097.11	096.73	097.87	096.97
20	21.30	0.00	?UNDEF	?UNDEF	23.40	0.00	096.73	098.56	141.30	0.00	097.15	096.80	097.93	097.10
21	21.40	0.00	?UNDEF	?UNDEF	23.70	0.00	096.81	098.11	134.30	0.00	097.24	096.98	097.84	097.14
22	21.60	0.00	?UNDEF	?UNDEF	27.30	0.00	096.80	098.09	89.00	0.00	097.24	097.02	097.87	097.13
23	16.00	0.00	?UNDEF	?UNDEF	27.50	0.00	096.86	098.17	86.30	0.00	097.25	097.01	097.83	097.08
24	15.60	0.00	?UNDEF	?UNDEF	27.30	0.00	096.95	097.98	70.00	0.00	097.31	097.11	098.08	097.08

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	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR :	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1 :	1.40	0.00	104.05	?UNDEF	?UNDEF	?UNDEF	12.30	0.00	096.60	098.45	14.60	0.00	?UNDEF	?UNDEF
2 :	1.40	0.00	104.03	?UNDEF	?UNDEF	?UNDEF	12.40	0.00	096.49	098.17	13.10	0.00	?UNDEF	?UNDEF
3 :	1.40	0.00	103.91	?UNDEF	?UNDEF	?UNDEF	13.20	0.00	096.64	097.92	12.90	0.00	?UNDEF	?UNDEF
4 :	1.40	0.00	103.72	?UNDEF	?UNDEF	?UNDEF	15.00	0.00	096.61	098.14	12.70	0.00	?UNDEF	?UNDEF
5 :	1.40	0.00	103.83	?UNDEF	?UNDEF	?UNDEF	13.40	0.00	096.53	098.23	12.90	0.00	?UNDEF	?UNDEF
6 :	1.40	0.00	103.49	?UNDEF	?UNDEF	?UNDEF	17.70	0.00	096.57	097.84	18.50	0.00	?UNDEF	?UNDEF
7 :	1.40	0.00	103.98	?UNDEF	?UNDEF	?UNDEF	20.80	0.00	096.59	097.63	20.50	0.00	?UNDEF	?UNDEF
8 :	1.40	0.00	104.07	?UNDEF	?UNDEF	?UNDEF	20.70	0.00	096.64	097.65	24.20	0.00	?UNDEF	?UNDEF
9 :	1.40	0.00	104.08	?UNDEF	?UNDEF	?UNDEF	20.90	0.00	096.60	097.63	24.80	0.00	?UNDEF	?UNDEF
10 :	1.40	0.00	104.55	?UNDEF	?UNDEF	?UNDEF	20.70	0.00	096.60	097.61	24.80	0.00	?UNDEF	?UNDEF
11 :	1.40	0.00	104.89	?UNDEF	?UNDEF	?UNDEF	22.40	0.00	096.56	097.77	24.80	0.00	?UNDEF	?UNDEF
12 :	1.40	0.00	105.34	?UNDEF	?UNDEF	?UNDEF	20.70	0.00	096.57	097.74	24.80	0.00	?UNDEF	?UNDEF
13 :	1.40	0.00	105.34	?UNDEF	?UNDEF	?UNDEF	20.70	0.00	096.57	097.78	25.20	0.00	?UNDEF	?UNDEF
14 :	1.40	0.00	105.10	?UNDEF	?UNDEF	?UNDEF	20.70	0.00	096.57	097.75	24.90	0.00	?UNDEF	?UNDEF
15 :	1.40	0.00	104.93	?UNDEF	?UNDEF	?UNDEF	21.20	0.00	096.55	097.59	24.80	0.00	?UNDEF	?UNDEF
16 :	1.40	0.00	104.79	?UNDEF	?UNDEF	?UNDEF	21.00	0.00	096.47	097.52	26.30	0.00	?UNDEF	?UNDEF
17 :	1.40	0.00	104.70	?UNDEF	?UNDEF	?UNDEF	22.70	0.00	096.43	097.46	24.70	0.00	?UNDEF	?UNDEF
18 :	1.40	0.00	104.54	?UNDEF	?UNDEF	?UNDEF	20.90	0.00	096.37	097.49	24.60	0.00	?UNDEF	?UNDEF
19 :	1.40	0.00	104.70	?UNDEF	?UNDEF	?UNDEF	22.60	0.00	096.21	097.23	22.40	0.00	?UNDEF	?UNDEF
20 :	1.40	0.00	104.57	?UNDEF	?UNDEF	?UNDEF	21.30	0.00	096.17	097.60	22.00	0.00	?UNDEF	?UNDEF
21 :	1.40	0.00	104.50	?UNDEF	?UNDEF	?UNDEF	16.40	0.00	096.09	097.54	18.90	0.00	?UNDEF	?UNDEF
22 :	1.40	0.00	104.56	?UNDEF	?UNDEF	?UNDEF	14.90	0.00	096.02	098.15	12.80	0.00	?UNDEF	?UNDEF
23 :	1.40	0.00	104.52	?UNDEF	?UNDEF	?UNDEF	12.40	0.00	096.00	097.80	12.60	0.00	?UNDEF	?UNDEF
24 :	1.40	0.00	104.42	?UNDEF	?UNDEF	?UNDEF	12.70	0.00	095.90	097.32	14.40	0.00	?UNDEF	?UNDEF
	LOWER MONUMENTAL			ICE HARBOR			MCNARY			PASCO				
HOUR :	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1 :	13.50	0.00	?UNDEF	?UNDEF	13.10	0.00	096.83	097.93	83.10	0.00	097.50	097.42	097.05	097.18
2 :	13.50	0.00	?UNDEF	?UNDEF	13.20	0.00	096.74	097.88	88.70	0.00	097.37	097.29	097.19	097.21
3 :	13.40	0.00	?UNDEF	?UNDEF	14.30	0.00	096.81	097.96	90.00	0.00	097.42	097.30	097.21	097.22
4 :	13.80	0.00	?UNDEF	?UNDEF	12.70	0.00	096.78	098.07	89.90	0.00	097.21	097.25	097.18	097.02
5 :	13.80	0.00	?UNDEF	?UNDEF	12.90	0.00	096.78	098.21	91.10	0.00	097.25	097.27	097.08	097.06
6 :	16.70	0.00	?UNDEF	?UNDEF	12.70	0.00	096.81	098.19	124.20	0.00	097.26	097.30	097.05	097.09
7 :	19.60	0.00	?UNDEF	?UNDEF	20.20	0.00	096.86	099.08	138.30	0.00	097.31	097.32	097.10	097.01
8 :	26.90	0.00	?UNDEF	?UNDEF	26.30	0.00	096.94	098.63	148.90	0.00	097.35	097.40	097.30	097.07
9 :	27.70	0.00	?UNDEF	?UNDEF	25.20	0.00	096.87	098.53	149.40	0.00	097.46	097.35	097.28	096.86
10 :	29.30	0.00	?UNDEF	?UNDEF	29.70	0.00	096.83	098.31	149.40	0.00	097.42	097.35	097.23	096.86
11 :	27.80	0.00	?UNDEF	?UNDEF	30.00	0.00	096.87	098.36	149.20	0.00	097.58	097.38	097.27	097.03
12 :	27.80	0.00	?UNDEF	?UNDEF	29.90	0.00	096.87	098.40	148.90	0.00	097.57	097.38	097.30	097.15
13 :	28.30	0.00	?UNDEF	?UNDEF	29.90	0.00	096.87	098.32	148.40	0.00	097.57	097.22	097.14	097.16
14 :	27.90	0.00	?UNDEF	?UNDEF	31.40	0.00	096.85	098.29	131.30	0.00	097.54	097.20	097.42	097.25
15 :	28.00	0.00	?UNDEF	?UNDEF	29.80	0.00	096.83	098.23	130.20	0.00	097.53	097.15	097.51	097.37
16 :	26.80	0.00	?UNDEF	?UNDEF	29.70	0.00	096.73	098.31	129.90	0.00	097.50	097.10	097.16	097.26
17 :	22.60	0.00	?UNDEF	?UNDEF	29.70	0.00	096.65	098.08	130.40	0.00	097.31	097.02	096.97	097.15
18 :	21.00	0.00	?UNDEF	?UNDEF	22.70	0.00	096.54	098.06	137.40	0.00	097.18	097.10	096.87	096.90
19 :	20.60	0.00	?UNDEF	?UNDEF	22.50	0.00	096.44	098.23	143.30	0.00	096.93	096.95	097.13	096.78
20 :	20.90	0.00	?UNDEF	?UNDEF	22.20	0.00	096.40	098.16	155.60	0.00	097.01	096.92	097.22	096.62
21 :	20.20	0.00	?UNDEF	?UNDEF	22.00	0.00	096.29	098.05	156.10	0.00	096.89	096.81	097.23	096.50
22 :	13.80	0.00	?UNDEF	?UNDEF	20.30	0.00	096.22	097.85	156.00	0.00	096.63	096.68	097.21	096.29
23 :	13.60	0.00	?UNDEF	?UNDEF	13.20	0.00	096.12	097.50	154.20	0.00	096.68	096.59	097.17	096.09
24 :	15.30	0.00	?UNDEF	?UNDEF	10.70	0.00	096.08	097.46	136.90	0.00	096.66	096.54	097.11	096.09

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DWRSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.
1	1.50	0.00	102.22	?UNDEF	?UNDEF	?UNDEF	12.70	0.00	095.93	097.27	13.10	0.00	?UNDEF	?UNDEF
2	1.40	0.00	102.33	?UNDEF	?UNDEF	?UNDEF	12.50	0.00	096.01	097.21	13.10	0.00	?UNDEF	?UNDEF
3	1.40	0.00	104.51	?UNDEF	?UNDEF	?UNDEF	12.50	0.00	096.10	097.37	13.30	0.00	?UNDEF	?UNDEF
4	1.40	0.00	105.09	?UNDEF	?UNDEF	?UNDEF	12.50	0.00	096.25	097.43	13.10	0.00	?UNDEF	?UNDEF
5	1.40	0.00	104.18	?UNDEF	?UNDEF	?UNDEF	12.70	0.00	096.29	097.33	13.30	0.00	?UNDEF	?UNDEF
6	1.40	0.00	103.71	?UNDEF	?UNDEF	?UNDEF	20.60	0.00	096.34	097.37	20.40	0.00	?UNDEF	?UNDEF
7	1.40	0.00	103.61	?UNDEF	?UNDEF	?UNDEF	24.80	0.00	096.50	097.24	24.80	0.00	?UNDEF	?UNDEF
8	1.40	0.00	103.77	?UNDEF	?UNDEF	?UNDEF	24.80	0.00	096.53	097.30	25.30	0.00	?UNDEF	?UNDEF
9	1.40	0.00	104.12	?UNDEF	?UNDEF	?UNDEF	25.10	0.00	096.54	097.30	26.80	0.00	?UNDEF	?UNDEF
10	1.40	0.00	104.40	?UNDEF	?UNDEF	?UNDEF	25.40	0.00	096.62	097.38	26.90	0.00	?UNDEF	?UNDEF
11	1.50	0.00	104.49	?UNDEF	?UNDEF	?UNDEF	25.10	0.00	096.68	097.45	26.80	0.00	?UNDEF	?UNDEF
12	1.40	0.00	104.72	?UNDEF	?UNDEF	?UNDEF	24.70	0.00	096.75	097.51	27.50	0.00	?UNDEF	?UNDEF
13	1.40	0.00	104.82	?UNDEF	?UNDEF	?UNDEF	22.60	0.00	096.79	097.95	27.00	0.00	?UNDEF	?UNDEF
14	1.40	0.00	104.82	?UNDEF	?UNDEF	?UNDEF	16.80	0.00	096.81	098.14	26.90	0.00	?UNDEF	?UNDEF
15	1.40	0.00	104.56	?UNDEF	?UNDEF	?UNDEF	16.70	0.00	096.88	098.03	23.20	0.00	?UNDEF	?UNDEF
16	1.50	0.00	104.26	?UNDEF	?UNDEF	?UNDEF	14.20	0.00	096.73	097.90	16.30	0.00	?UNDEF	?UNDEF
17	1.40	0.00	103.86	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	096.70	097.90	16.30	0.00	?UNDEF	?UNDEF
18	1.40	0.00	103.82	?UNDEF	?UNDEF	?UNDEF	15.80	0.00	096.69	097.73	17.50	0.00	?UNDEF	?UNDEF
19	1.40	0.00	103.86	?UNDEF	?UNDEF	?UNDEF	16.00	0.00	096.68	097.58	17.40	0.00	?UNDEF	?UNDEF
20	1.40	0.00	104.06	?UNDEF	?UNDEF	?UNDEF	15.70	0.00	096.61	097.55	15.60	0.00	?UNDEF	?UNDEF
21	1.50	0.00	104.02	?UNDEF	?UNDEF	?UNDEF	13.70	0.00	096.61	097.63	13.90	0.00	?UNDEF	?UNDEF
22	1.40	0.00	103.86	?UNDEF	?UNDEF	?UNDEF	13.30	0.00	096.59	097.49	14.00	0.00	?UNDEF	?UNDEF
23	1.40	0.00	103.68	?UNDEF	?UNDEF	?UNDEF	15.00	0.00	096.60	097.81	14.00	0.00	?UNDEF	?UNDEF
24	1.40	0.00	103.87	?UNDEF	?UNDEF	?UNDEF	15.10	0.00	096.63	097.89	15.30	0.00	?UNDEF	?UNDEF
LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT
1	13.40	0.00	?UNDEF	?UNDEF	14.10	0.00	096.41	097.65	69.60	0.00	096.69	096.58	096.54	096.82
2	13.50	0.00	?UNDEF	?UNDEF	12.50	0.00	096.49	097.78	71.10	0.00	096.93	096.58	096.59	096.94
3	13.50	0.00	?UNDEF	?UNDEF	12.50	0.00	096.47	097.78	71.60	0.00	096.90	096.43	096.72	096.75
4	13.50	0.00	?UNDEF	?UNDEF	12.50	0.00	096.46	097.77	71.60	0.00	096.92	096.44	096.74	096.62
5	13.70	0.00	?UNDEF	?UNDEF	13.50	0.00	096.53	098.62	84.30	0.00	096.85	096.47	096.68	096.56
6	21.40	0.00	?UNDEF	?UNDEF	20.60	0.00	096.56	098.42	116.00	0.00	096.77	096.67	096.71	096.62
7	26.00	0.00	?UNDEF	?UNDEF	24.00	0.00	096.67	098.31	119.30	0.00	097.10	096.72	096.78	096.52
8	25.90	0.00	?UNDEF	?UNDEF	24.70	0.00	096.72	098.24	119.30	0.00	097.16	096.74	096.83	096.56
9	26.80	0.00	?UNDEF	?UNDEF	25.40	0.00	096.72	098.27	119.00	0.00	097.16	096.78	096.97	096.59
10	26.80	0.00	?UNDEF	?UNDEF	25.50	0.00	096.76	098.24	120.80	0.00	097.19	096.83	097.26	096.61
11	26.70	0.00	?UNDEF	?UNDEF	26.90	0.00	096.81	098.31	109.80	0.00	097.54	097.07	097.35	096.83
12	27.00	0.00	?UNDEF	?UNDEF	25.40	0.00	096.91	098.36	102.90	0.00	097.87	097.11	097.45	097.04
13	28.30	0.00	?UNDEF	?UNDEF	25.40	0.00	096.95	098.91	99.50	0.00	098.04	097.17	097.49	097.24
14	28.00	0.00	?UNDEF	?UNDEF	25.40	0.00	096.99	098.60	94.00	0.00	098.16	097.24	097.56	097.45
15	28.00	0.00	?UNDEF	?UNDEF	25.80	0.00	096.99	098.57	90.60	0.00	098.03	097.53	097.45	097.60
16	29.30	0.00	?UNDEF	?UNDEF	26.80	0.00	096.98	098.54	88.60	0.00	098.02	097.65	097.29	097.55
17	29.40	0.00	?UNDEF	?UNDEF	25.30	0.00	096.96	098.28	98.00	0.00	097.88	097.65	097.29	097.52
18	26.80	0.00	?UNDEF	?UNDEF	26.60	0.00	096.95	098.51	116.10	0.00	097.82	097.59	097.24	097.63
19	21.50	0.00	?UNDEF	?UNDEF	25.10	0.00	096.89	098.19	115.90	0.00	097.62	097.53	097.19	097.56
20	13.90	0.00	?UNDEF	?UNDEF	20.50	0.00	096.83	098.11	96.90	0.00	097.73	097.50	097.15	097.50
21	14.90	0.00	?UNDEF	?UNDEF	19.60	0.00	096.85	098.79	94.40	0.00	097.69	097.31	097.11	097.49
22	13.30	0.00	?UNDEF	?UNDEF	13.00	0.00	096.78	098.21	89.20	0.00	097.50	097.43	097.19	097.45
23	15.10	0.00	?UNDEF	?UNDEF	13.20	0.00	096.77	097.91	88.90	0.00	097.49	097.39	097.13	097.29
24	13.40	0.00	?UNDEF	?UNDEF	13.00	0.00	096.77	097.90	82.30	0.00	097.49	097.41	097.02	097.29

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HOUR	DWORSHAK			STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.
1	1.40	0.00	102.28	?UNDEF	?UNDEF	?UNDEF	12.90	0.00	096.37	097.26	12.70	0.00	?UNDEF	?UNDEF
2	1.40	0.00	102.18	?UNDEF	?UNDEF	?UNDEF	12.70	0.00	096.30	097.25	12.80	0.00	?UNDEF	?UNDEF
3	1.40	0.00	102.41	?UNDEF	?UNDEF	?UNDEF	12.60	0.00	096.29	097.20	12.60	0.00	?UNDEF	?UNDEF
4	1.40	0.00	102.42	?UNDEF	?UNDEF	?UNDEF	12.70	0.00	096.22	097.02	12.50	0.00	?UNDEF	?UNDEF
5	1.40	0.00	102.31	?UNDEF	?UNDEF	?UNDEF	12.80	0.00	096.21	097.00	13.30	0.00	?UNDEF	?UNDEF
6	1.40	0.00	102.31	?UNDEF	?UNDEF	?UNDEF	13.20	0.00	096.02	096.92	13.00	0.00	?UNDEF	?UNDEF
7	1.40	0.00	102.38	?UNDEF	?UNDEF	?UNDEF	13.10	0.00	095.93	096.83	14.00	0.00	?UNDEF	?UNDEF
8	1.40	0.00	102.39	?UNDEF	?UNDEF	?UNDEF	16.20	0.00	095.84	096.87	17.10	0.00	?UNDEF	?UNDEF
9	1.40	0.00	102.55	?UNDEF	?UNDEF	?UNDEF	19.80	0.00	095.70	096.76	20.10	0.00	?UNDEF	?UNDEF
10	1.40	0.00	102.70	?UNDEF	?UNDEF	?UNDEF	20.10	0.00	095.69	096.67	20.50	0.00	?UNDEF	?UNDEF
11	1.50	0.00	102.75	?UNDEF	?UNDEF	?UNDEF	20.40	0.00	095.75	096.60	19.50	0.00	?UNDEF	?UNDEF
12	1.40	0.00	102.84	?UNDEF	?UNDEF	?UNDEF	20.00	0.00	095.75	096.76	18.20	0.00	?UNDEF	?UNDEF
13	1.40	0.00	102.84	?UNDEF	?UNDEF	?UNDEF	20.00	0.00	095.77	096.62	19.40	0.00	?UNDEF	?UNDEF
14	1.40	0.00	102.86	?UNDEF	?UNDEF	?UNDEF	20.00	0.00	095.72	096.64	19.20	0.00	?UNDEF	?UNDEF
15	1.40	0.00	102.56	?UNDEF	?UNDEF	?UNDEF	18.90	0.00	095.70	096.60	18.50	0.00	?UNDEF	?UNDEF
16	1.50	0.00	102.38	?UNDEF	?UNDEF	?UNDEF	19.10	0.00	095.73	096.62	18.50	0.00	?UNDEF	?UNDEF
17	1.40	0.00	102.16	?UNDEF	?UNDEF	?UNDEF	18.70	0.00	095.71	096.63	18.90	0.00	?UNDEF	?UNDEF
18	1.40	0.00	101.96	?UNDEF	?UNDEF	?UNDEF	18.40	0.00	095.72	096.63	20.00	0.00	?UNDEF	?UNDEF
19	1.40	0.00	102.16	?UNDEF	?UNDEF	?UNDEF	18.60	0.00	095.71	096.64	18.40	0.00	?UNDEF	?UNDEF
20	1.40	0.00	102.25	?UNDEF	?UNDEF	?UNDEF	18.80	0.00	095.75	096.69	18.40	0.00	?UNDEF	?UNDEF
21	1.40	0.00	102.29	?UNDEF	?UNDEF	?UNDEF	20.70	0.00	095.79	096.77	18.30	0.00	?UNDEF	?UNDEF
22	1.40	0.00	102.33	?UNDEF	?UNDEF	?UNDEF	18.40	0.00	095.86	097.06	18.40	0.00	?UNDEF	?UNDEF
23	1.40	0.00	102.44	?UNDEF	?UNDEF	?UNDEF	13.00	0.00	095.97	097.14	13.50	0.00	?UNDEF	?UNDEF
24	1.40	0.00	102.24	?UNDEF	?UNDEF	?UNDEF	12.50	0.00	096.02	097.18	13.20	0.00	?UNDEF	?UNDEF
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO	
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT
1	14.10	0.00	?UNDEF	?UNDEF	12.50	0.00	096.38	097.81	55.50	0.00	096.77	096.67	096.78	097.21
2	13.70	0.00	?UNDEF	?UNDEF	12.60	0.00	096.33	097.76	53.20	0.00	096.61	096.53	097.10	097.04
3	13.70	0.00	?UNDEF	?UNDEF	12.60	0.00	096.30	097.70	51.80	0.00	096.68	096.44	097.00	096.97
4	13.80	0.00	?UNDEF	?UNDEF	12.80	0.00	096.21	097.65	55.20	0.00	096.57	096.32	096.82	096.76
5	15.30	0.00	?UNDEF	?UNDEF	12.80	0.00	096.23	098.55	74.90	0.00	096.59	096.33	096.93	096.76
6	13.90	0.00	?UNDEF	?UNDEF	12.90	0.00	096.11	097.95	91.00	0.00	096.50	096.26	096.95	096.56
7	14.10	0.00	?UNDEF	?UNDEF	12.70	0.00	096.02	097.70	104.50	0.00	096.41	096.14	096.46	096.46
8	17.00	0.00	?UNDEF	?UNDEF	19.10	0.00	095.96	097.62	108.20	0.00	096.34	096.20	096.26	096.22
9	21.00	0.00	?UNDEF	?UNDEF	22.30	0.00	095.86	097.87	129.40	0.00	096.25	096.11	096.28	096.10
10	21.10	0.00	?UNDEF	?UNDEF	22.30	0.00	095.74	097.75	126.60	0.00	096.15	096.05	096.24	096.03
11	21.20	0.00	?UNDEF	?UNDEF	20.80	0.00	095.69	097.56	124.90	0.00	096.12	096.05	096.22	096.15
12	21.10	0.00	?UNDEF	?UNDEF	20.80	0.00	095.75	098.02	105.80	0.00	096.27	096.02	096.39	096.27
13	21.60	0.00	?UNDEF	?UNDEF	20.80	0.00	095.75	097.79	88.70	0.00	096.30	096.07	096.39	096.56
14	21.30	0.00	?UNDEF	?UNDEF	20.80	0.00	095.78	098.16	89.00	0.00	096.35	096.12	096.29	096.69
15	22.90	0.00	?UNDEF	?UNDEF	21.20	0.00	095.75	097.86	89.10	0.00	096.33	096.10	096.28	096.86
16	21.40	0.00	?UNDEF	?UNDEF	20.90	0.00	095.78	097.70	88.10	0.00	096.47	096.12	096.18	096.84
17	21.30	0.00	?UNDEF	?UNDEF	20.90	0.00	095.77	097.56	93.20	0.00	096.47	096.26	096.18	096.96
18	21.30	0.00	?UNDEF	?UNDEF	20.70	0.00	095.77	097.43	87.90	0.00	096.46	096.09	096.00	096.97
19	21.50	0.00	?UNDEF	?UNDEF	20.70	0.00	095.81	097.35	81.70	0.00	096.47	096.26	096.06	096.90
20	18.90	0.00	?UNDEF	?UNDEF	20.70	0.00	095.88	097.38	83.50	0.00	096.52	096.19	096.07	096.97
21	18.40	0.00	?UNDEF	?UNDEF	20.70	0.00	095.93	097.45	83.70	0.00	096.60	096.19	096.12	096.88
22	18.30	0.00	?UNDEF	?UNDEF	20.50	0.00	096.01	097.51	82.80	0.00	096.54	096.31	096.25	096.96
23	13.50	0.00	?UNDEF	?UNDEF	13.00	0.00	096.18	097.46	81.50	0.00	096.48	096.34	096.30	096.88
24	13.60	0.00	?UNDEF	?UNDEF	12.70	0.00	096.24	097.55	58.30	0.00	096.67	096.45	096.25	096.88

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	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.40	0.00	101.58	?UNDEF	?UNDEF	?UNDEF	15.70	0.00	095.24	096.13	14.10	0.00	?UNDEF	?UNDEF
2	1.40	0.00	101.48	?UNDEF	?UNDEF	?UNDEF	14.10	0.00	095.31	096.58	14.60	0.00	?UNDEF	?UNDEF
3	1.40	0.00	101.57	?UNDEF	?UNDEF	?UNDEF	13.10	0.00	095.40	096.56	13.50	0.00	?UNDEF	?UNDEF
4	1.40	0.00	101.76	?UNDEF	?UNDEF	?UNDEF	12.90	0.00	095.50	096.56	13.40	0.00	?UNDEF	?UNDEF
5	1.40	0.00	101.68	?UNDEF	?UNDEF	?UNDEF	13.40	0.00	095.77	096.55	15.20	0.00	?UNDEF	?UNDEF
6	1.40	0.00	101.89	?UNDEF	?UNDEF	?UNDEF	13.70	0.00	095.84	096.67	15.20	0.00	?UNDEF	?UNDEF
7	1.40	0.00	101.99	?UNDEF	?UNDEF	?UNDEF	13.40	0.00	095.93	096.72	13.90	0.00	?UNDEF	?UNDEF
8	1.40	0.00	101.95	?UNDEF	?UNDEF	?UNDEF	14.10	0.00	095.98	096.80	13.70	0.00	?UNDEF	?UNDEF
9	1.40	0.00	102.17	?UNDEF	?UNDEF	?UNDEF	14.20	0.00	096.04	096.85	13.60	0.00	?UNDEF	?UNDEF
10	1.40	0.00	102.37	?UNDEF	?UNDEF	?UNDEF	14.20	0.00	096.27	097.03	13.60	0.00	?UNDEF	?UNDEF
11	1.50	0.00	102.88	?UNDEF	?UNDEF	?UNDEF	14.50	0.00	096.32	097.23	13.90	0.00	?UNDEF	?UNDEF
12	1.40	0.00	103.12	?UNDEF	?UNDEF	?UNDEF	14.20	0.00	096.47	097.38	13.80	0.00	?UNDEF	?UNDEF
13	1.40	0.00	103.21	?UNDEF	?UNDEF	?UNDEF	14.10	0.00	096.54	097.44	13.80	0.00	?UNDEF	?UNDEF
14	1.40	0.00	103.31	?UNDEF	?UNDEF	?UNDEF	14.10	0.00	096.75	097.57	13.90	0.00	?UNDEF	?UNDEF
15	1.40	0.00	103.09	?UNDEF	?UNDEF	?UNDEF	14.20	0.00	096.68	097.61	13.90	0.00	?UNDEF	?UNDEF
16	1.40	0.00	102.73	?UNDEF	?UNDEF	?UNDEF	16.30	0.00	096.70	097.50	14.20	0.00	?UNDEF	?UNDEF
17	1.40	0.00	102.53	?UNDEF	?UNDEF	?UNDEF	15.80	0.00	096.74	097.79	14.00	0.00	?UNDEF	?UNDEF
18	1.40	0.00	102.52	?UNDEF	?UNDEF	?UNDEF	17.50	0.00	096.79	097.69	15.40	0.00	?UNDEF	?UNDEF
19	1.40	0.00	102.53	?UNDEF	?UNDEF	?UNDEF	19.10	0.00	096.77	097.54	18.30	0.00	?UNDEF	?UNDEF
20	1.50	0.00	102.67	?UNDEF	?UNDEF	?UNDEF	19.30	0.00	096.71	097.52	18.60	0.00	?UNDEF	?UNDEF
21	1.40	0.00	102.56	?UNDEF	?UNDEF	?UNDEF	19.60	0.00	096.70	097.50	18.80	0.00	?UNDEF	?UNDEF
22	1.40	0.00	102.33	?UNDEF	?UNDEF	?UNDEF	19.00	0.00	096.64	097.46	18.20	0.00	?UNDEF	?UNDEF
23	1.40	0.00	102.18	?UNDEF	?UNDEF	?UNDEF	13.00	0.00	096.55	097.34	13.20	0.00	?UNDEF	?UNDEF
24	1.40	0.00	102.34	?UNDEF	?UNDEF	?UNDEF	12.60	0.00	096.34	097.25	13.00	0.00	?UNDEF	?UNDEF
	LOWER MONUMENTAL			ICE HARBOR			MCNARY			PASCO				
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	16.90	0.00	?UNDEF	?UNDEF	19.20	0.00	095.40	096.79	87.30	0.00	095.91	095.77	095.70	096.04
2	14.30	0.00	?UNDEF	?UNDEF	12.60	0.00	095.50	096.92	96.00	0.00	095.84	095.86	095.78	096.02
3	13.80	0.00	?UNDEF	?UNDEF	12.70	0.00	095.46	097.00	96.00	0.00	096.10	095.85	096.03	095.96
4	13.90	0.00	?UNDEF	?UNDEF	12.50	0.00	095.55	098.00	97.80	0.00	096.17	095.95	095.98	095.92
5	13.90	0.00	?UNDEF	?UNDEF	12.40	0.00	095.66	097.57	115.30	0.00	096.26	096.04	096.06	096.02
6	13.90	0.00	?UNDEF	?UNDEF	12.40	0.00	095.71	097.23	102.40	0.00	096.18	096.19	096.11	096.10
7	14.10	0.00	?UNDEF	?UNDEF	12.40	0.00	095.76	097.30	99.20	0.00	096.39	096.28	096.20	096.19
8	13.90	0.00	?UNDEF	?UNDEF	12.30	0.00	095.81	097.37	99.80	0.00	096.40	096.44	096.34	096.26
9	13.90	0.00	?UNDEF	?UNDEF	12.20	0.00	095.98	097.56	100.60	0.00	096.50	096.51	096.66	096.38
10	15.40	0.00	?UNDEF	?UNDEF	12.40	0.00	096.00	097.68	103.00	0.00	096.54	096.53	096.99	096.54
11	13.90	0.00	?UNDEF	?UNDEF	12.20	0.00	096.19	097.94	100.20	0.00	096.77	096.79	097.13	096.71
12	15.60	0.00	?UNDEF	?UNDEF	12.20	0.00	096.42	098.16	96.20	0.00	096.85	096.89	097.24	097.11
13	13.80	0.00	?UNDEF	?UNDEF	12.20	0.00	096.53	098.39	85.20	0.00	097.08	096.98	097.29	097.31
14	13.80	0.00	?UNDEF	?UNDEF	13.70	0.00	096.62	098.64	78.50	0.00	097.40	097.18	097.39	097.54
15	13.80	0.00	?UNDEF	?UNDEF	12.20	0.00	096.68	098.81	79.40	0.00	097.50	097.27	097.31	097.66
16	14.00	0.00	?UNDEF	?UNDEF	13.80	0.00	096.71	098.81	80.60	0.00	097.55	097.35	097.36	097.82
17	15.50	0.00	?UNDEF	?UNDEF	12.90	0.00	096.70	098.84	87.70	0.00	097.41	097.18	097.22	097.83
18	16.70	0.00	?UNDEF	?UNDEF	12.90	0.00	096.71	098.83	97.10	0.00	097.37	097.14	097.08	097.86
19	19.80	0.00	?UNDEF	?UNDEF	12.90	0.00	096.70	099.35	96.00	0.00	097.19	097.11	097.01	097.82
20	19.70	0.00	?UNDEF	?UNDEF	19.10	0.00	096.73	098.95	102.40	0.00	097.15	097.05	096.83	097.77
21	19.50	0.00	?UNDEF	?UNDEF	20.20	0.00	096.60	098.54	107.60	0.00	097.13	097.01	096.80	097.70
22	19.40	0.00	?UNDEF	?UNDEF	20.10	0.00	096.56	098.23	106.50	0.00	096.98	097.02	096.77	097.49
23	13.90	0.00	?UNDEF	?UNDEF	12.70	0.00	096.46	098.02	87.80	0.00	096.90	096.95	096.73	097.33
24	13.60	0.00	?UNDEF	?UNDEF	14.00	0.00	096.46	097.86	65.30	0.00	096.82	096.87	096.86	097.33

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WALLA WALLA DISTRICT HYDRO PROJECTS
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HOUR	DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.		
1	1.40	0.00	101.69	?UNDEF	?UNDEF	?UNDEF	15.50	0.00	094.66	095.67	13.30	0.00	?UNDEF	?UNDEF		
2	1.40	0.00	101.57	?UNDEF	?UNDEF	?UNDEF	13.50	0.00	094.52	095.96	13.30	0.00	?UNDEF	?UNDEF		
3	1.40	0.00	101.64	?UNDEF	?UNDEF	?UNDEF	13.50	0.00	094.40	095.84	13.30	0.00	?UNDEF	?UNDEF		
4	1.40	0.00	101.46	?UNDEF	?UNDEF	?UNDEF	13.60	0.00	094.36	095.54	13.10	0.00	?UNDEF	?UNDEF		
5	1.50	0.00	101.60	?UNDEF	?UNDEF	?UNDEF	13.70	0.00	094.28	095.45	14.40	0.00	?UNDEF	?UNDEF		
6	1.40	0.00	101.36	?UNDEF	?UNDEF	?UNDEF	19.60	0.00	094.00	095.18	19.90	0.00	?UNDEF	?UNDEF		
7	1.40	0.00	101.28	?UNDEF	?UNDEF	?UNDEF	20.10	0.00	093.97	095.09	23.30	0.00	?UNDEF	?UNDEF		
8	1.40	0.00	101.41	?UNDEF	?UNDEF	?UNDEF	18.80	0.00	093.90	095.07	21.20	0.00	?UNDEF	?UNDEF		
9	1.40	0.00	101.74	?UNDEF	?UNDEF	?UNDEF	18.90	0.00	093.87	094.99	19.50	0.00	?UNDEF	?UNDEF		
10	1.40	0.00	101.92	?UNDEF	?UNDEF	?UNDEF	18.60	0.00	093.82	095.09	19.80	0.00	?UNDEF	?UNDEF		
11	1.40	0.00	102.01	?UNDEF	?UNDEF	?UNDEF	18.50	0.00	093.84	095.22	19.30	0.00	?UNDEF	?UNDEF		
12	1.40	0.00	102.08	?UNDEF	?UNDEF	?UNDEF	18.60	0.00	093.99	095.24	19.30	0.00	?UNDEF	?UNDEF		
13	1.40	0.00	102.01	?UNDEF	?UNDEF	?UNDEF	18.50	0.00	094.19	095.43	19.30	0.00	?UNDEF	?UNDEF		
14	1.40	0.00	101.82	?UNDEF	?UNDEF	?UNDEF	18.90	0.00	094.31	095.32	19.30	0.00	?UNDEF	?UNDEF		
15	1.50	0.00	101.70	?UNDEF	?UNDEF	?UNDEF	18.50	0.00	094.31	095.31	19.30	0.00	?UNDEF	?UNDEF		
16	1.40	0.00	101.39	?UNDEF	?UNDEF	?UNDEF	18.50	0.00	094.34	095.34	19.60	0.00	?UNDEF	?UNDEF		
17	1.40	0.00	101.39	?UNDEF	?UNDEF	?UNDEF	18.60	0.00	094.49	095.38	19.30	0.00	?UNDEF	?UNDEF		
18	1.40	0.00	101.29	?UNDEF	?UNDEF	?UNDEF	18.60	0.00	094.52	095.41	19.30	0.00	?UNDEF	?UNDEF		
19	1.40	0.00	101.39	?UNDEF	?UNDEF	?UNDEF	18.90	0.00	094.63	095.50	19.30	0.00	?UNDEF	?UNDEF		
20	1.40	0.00	101.03	?UNDEF	?UNDEF	?UNDEF	16.60	0.00	094.79	095.55	18.60	0.00	?UNDEF	?UNDEF		
21	1.40	0.00	101.05	?UNDEF	?UNDEF	?UNDEF	16.30	0.00	094.87	095.72	17.40	0.00	?UNDEF	?UNDEF		
22	1.40	0.00	101.40	?UNDEF	?UNDEF	?UNDEF	16.30	0.00	094.90	095.67	17.10	0.00	?UNDEF	?UNDEF		
23	1.40	0.00	101.41	?UNDEF	?UNDEF	?UNDEF	18.00	0.00	095.12	095.88	16.60	0.00	?UNDEF	?UNDEF		
24	1.40	0.00	101.66	?UNDEF	?UNDEF	?UNDEF	14.40	0.00	095.14	096.18	14.20	0.00	?UNDEF	?UNDEF		
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT		
1	15.00	0.00	?UNDEF	?UNDEF	15.00	0.00	095.03	096.44	92.10	0.00	095.57	095.19	095.51	095.83		
2	15.00	0.00	?UNDEF	?UNDEF	14.70	0.00	094.95	096.35	89.60	0.00	095.46	095.10	095.33	095.65		
3	16.40	0.00	?UNDEF	?UNDEF	14.70	0.00	094.86	096.64	92.70	0.00	095.37	095.03	095.36	095.55		
4	15.10	0.00	?UNDEF	?UNDEF	15.20	0.00	094.76	097.23	97.00	0.00	095.34	094.95	095.18	095.34		
5	17.30	0.00	?UNDEF	?UNDEF	15.50	0.00	094.74	096.37	127.60	0.00	095.28	095.02	095.08	095.28		
6	21.30	0.00	?UNDEF	?UNDEF	21.50	0.00	094.68	096.19	130.30	0.00	095.24	094.96	095.15	095.10		
7	25.80	0.00	?UNDEF	?UNDEF	24.70	0.00	094.63	096.14	132.50	0.00	095.18	095.04	095.10	094.90		
8	20.80	0.00	?UNDEF	?UNDEF	22.00	0.00	094.55	096.24	109.50	0.00	095.13	095.00	095.08	094.83		
9	19.90	0.00	?UNDEF	?UNDEF	20.60	0.00	094.47	096.21	79.50	0.00	095.05	094.96	095.13	094.80		
10	20.00	0.00	?UNDEF	?UNDEF	20.10	0.00	094.50	096.09	77.10	0.00	095.03	094.80	095.26	094.76		
11	21.40	0.00	?UNDEF	?UNDEF	21.60	0.00	094.53	097.42	76.70	0.00	095.22	094.70	095.44	094.95		
12	19.80	0.00	?UNDEF	?UNDEF	20.30	0.00	094.68	096.52	77.60	0.00	095.39	094.90	095.74	095.23		
13	20.20	0.00	?UNDEF	?UNDEF	20.30	0.00	094.71	097.00	77.40	0.00	095.83	094.93	095.64	095.38		
14	19.90	0.00	?UNDEF	?UNDEF	20.30	0.00	094.75	096.74	77.80	0.00	095.58	094.98	095.73	095.73		
15	19.70	0.00	?UNDEF	?UNDEF	20.30	0.00	094.75	097.34	78.00	0.00	096.03	095.15	095.63	095.86		
16	19.80	0.00	?UNDEF	?UNDEF	20.20	0.00	094.81	096.58	78.50	0.00	096.03	095.18	095.51	096.02		
17	19.90	0.00	?UNDEF	?UNDEF	20.20	0.00	094.82	096.49	101.30	0.00	095.94	095.31	095.40	096.05		
18	19.80	0.00	?UNDEF	?UNDEF	21.70	0.00	094.87	096.52	117.70	0.00	095.87	095.37	095.71	096.09		
19	20.10	0.00	?UNDEF	?UNDEF	20.60	0.00	094.94	096.46	116.10	0.00	095.74	095.39	095.60	096.26		
20	21.00	0.00	?UNDEF	?UNDEF	20.30	0.00	094.96	096.50	117.00	0.00	095.83	095.30	095.79	096.19		
21	21.20	0.00	?UNDEF	?UNDEF	20.20	0.00	095.01	097.34	116.60	0.00	095.71	095.48	095.68	096.22		
22	21.10	0.00	?UNDEF	?UNDEF	20.20	0.00	095.06	096.46	107.20	0.00	095.66	095.57	095.77	096.12		
23	20.70	0.00	?UNDEF	?UNDEF	21.70	0.00	095.13	096.66	103.90	0.00	095.76	095.63	095.57	096.20		
24	17.00	0.00	?UNDEF	?UNDEF	20.20	0.00	095.34	096.73	92.40	0.00	095.82	095.72	095.63	096.20		

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DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.
1	1.40	0.00	102.33	?UNDEF	?UNDEF	?UNDEF	13.00	0.00	096.06	096.97	13.60	0.00	?UNDEF	?UNDEF
2	1.40	0.00	102.17	?UNDEF	?UNDEF	?UNDEF	13.00	0.00	096.27	096.91	12.60	0.00	?UNDEF	?UNDEF
3	1.40	0.00	101.60	?UNDEF	?UNDEF	?UNDEF	13.00	0.00	096.32	096.95	13.00	0.00	?UNDEF	?UNDEF
4	1.40	0.00	102.09	?UNDEF	?UNDEF	?UNDEF	14.60	0.00	096.32	096.94	13.20	0.00	?UNDEF	?UNDEF
5	1.40	0.00	102.48	?UNDEF	?UNDEF	?UNDEF	13.20	0.00	096.24	097.30	13.00	0.00	?UNDEF	?UNDEF
6	1.40	0.00	102.51	?UNDEF	?UNDEF	?UNDEF	13.00	0.00	096.10	097.16	14.60	0.00	?UNDEF	?UNDEF
7	1.40	0.00	102.31	?UNDEF	?UNDEF	?UNDEF	18.30	0.00	095.86	096.90	18.10	0.00	?UNDEF	?UNDEF
8	1.40	0.00	102.35	?UNDEF	?UNDEF	?UNDEF	19.10	0.00	095.70	096.76	19.80	0.00	?UNDEF	?UNDEF
9	1.40	0.00	102.92	?UNDEF	?UNDEF	?UNDEF	19.20	0.00	095.64	096.54	20.20	0.00	?UNDEF	?UNDEF
10	1.40	0.00	103.42	?UNDEF	?UNDEF	?UNDEF	19.20	0.00	095.64	096.70	20.50	0.00	?UNDEF	?UNDEF
11	1.40	0.00	103.70	?UNDEF	?UNDEF	?UNDEF	19.60	0.00	095.77	096.67	20.00	0.00	?UNDEF	?UNDEF
12	1.40	0.00	103.66	?UNDEF	?UNDEF	?UNDEF	19.20	0.00	095.69	096.72	20.10	0.00	?UNDEF	?UNDEF
13	1.40	0.00	103.72	?UNDEF	?UNDEF	?UNDEF	19.20	0.00	095.78	096.80	21.50	0.00	?UNDEF	?UNDEF
14	1.50	0.00	103.39	?UNDEF	?UNDEF	?UNDEF	18.90	0.00	095.78	096.80	19.70	0.00	?UNDEF	?UNDEF
15	1.40	0.00	102.57	?UNDEF	?UNDEF	?UNDEF	18.80	0.00	095.73	096.78	19.20	0.00	?UNDEF	?UNDEF
16	1.40	0.00	102.75	?UNDEF	?UNDEF	?UNDEF	18.80	0.00	095.67	096.58	19.30	0.00	?UNDEF	?UNDEF
17	1.40	0.00	102.33	?UNDEF	?UNDEF	?UNDEF	18.40	0.00	095.53	096.45	19.30	0.00	?UNDEF	?UNDEF
18	1.40	0.00	102.19	?UNDEF	?UNDEF	?UNDEF	18.80	0.00	095.40	096.39	19.30	0.00	?UNDEF	?UNDEF
19	1.40	0.00	102.33	?UNDEF	?UNDEF	?UNDEF	19.10	0.00	095.27	096.22	19.60	0.00	?UNDEF	?UNDEF
20	1.40	0.00	101.87	?UNDEF	?UNDEF	?UNDEF	18.90	0.00	095.17	096.13	19.30	0.00	?UNDEF	?UNDEF
21	1.40	0.00	101.72	?UNDEF	?UNDEF	?UNDEF	18.80	0.00	095.05	095.96	19.30	0.00	?UNDEF	?UNDEF
22	1.40	0.00	101.86	?UNDEF	?UNDEF	?UNDEF	18.70	0.00	094.95	095.98	20.70	0.00	?UNDEF	?UNDEF
23	1.40	0.00	101.63	?UNDEF	?UNDEF	?UNDEF	14.20	0.00	094.84	095.86	15.20	0.00	?UNDEF	?UNDEF
24	1.40	0.00	101.69	?UNDEF	?UNDEF	?UNDEF	13.60	0.00	094.76	095.76	13.60	0.00	?UNDEF	?UNDEF
LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT
1	14.00	0.00	?UNDEF	?UNDEF	12.40	0.00	096.55	097.81	80.50	0.00	097.21	097.11	097.03	097.10
2	13.20	0.00	?UNDEF	?UNDEF	10.00	0.00	096.53	097.81	100.20	0.00	097.09	096.99	096.92	096.94
3	13.40	0.00	?UNDEF	?UNDEF	9.80	0.00	096.46	097.71	128.50	0.00	096.82	096.69	096.77	096.88
4	13.90	0.00	?UNDEF	?UNDEF	10.00	0.00	096.40	097.66	141.80	0.00	096.70	096.75	096.83	096.86
5	13.80	0.00	?UNDEF	?UNDEF	11.40	0.00	096.23	097.64	142.10	0.00	096.64	096.70	096.59	096.70
6	14.90	0.00	?UNDEF	?UNDEF	10.00	0.00	096.13	097.72	146.30	0.00	096.59	096.46	096.54	096.59
7	18.40	0.00	?UNDEF	?UNDEF	12.90	0.00	096.09	097.66	121.40	0.00	096.35	096.23	096.43	096.58
8	20.00	0.00	?UNDEF	?UNDEF	20.70	0.00	096.08	097.72	118.30	0.00	096.42	096.19	096.37	096.48
9	20.30	0.00	?UNDEF	?UNDEF	20.80	0.00	095.91	098.87	117.70	0.00	096.34	096.14	096.49	096.39
10	21.80	0.00	?UNDEF	?UNDEF	20.90	0.00	095.96	098.71	117.00	0.00	096.30	096.07	096.41	096.55
11	20.30	0.00	?UNDEF	?UNDEF	20.90	0.00	095.91	097.65	100.50	0.00	096.33	096.10	096.53	096.63
12	20.70	0.00	?UNDEF	?UNDEF	20.80	0.00	095.97	097.78	97.60	0.00	096.50	096.17	096.58	096.84
13	20.30	0.00	?UNDEF	?UNDEF	20.90	0.00	096.08	098.16	98.70	0.00	096.49	096.24	096.66	097.29
14	21.90	0.00	?UNDEF	?UNDEF	20.90	0.00	096.02	098.02	98.30	0.00	096.40	096.17	096.61	097.52
15	20.30	0.00	?UNDEF	?UNDEF	20.90	0.00	096.01	097.90	98.30	0.00	096.49	096.25	096.41	097.65
16	20.30	0.00	?UNDEF	?UNDEF	20.80	0.00	095.88	097.70	117.20	0.00	096.40	096.12	096.32	097.67
17	20.00	0.00	?UNDEF	?UNDEF	21.30	0.00	095.76	097.44	121.10	0.00	096.28	096.02	096.06	097.55
18	21.20	0.00	?UNDEF	?UNDEF	21.60	0.00	095.61	097.18	121.20	0.00	096.21	095.94	095.97	097.40
19	21.00	0.00	?UNDEF	?UNDEF	21.70	0.00	095.64	097.04	117.20	0.00	096.05	095.83	096.00	097.35
20	21.00	0.00	?UNDEF	?UNDEF	21.70	0.00	095.55	096.77	119.40	0.00	095.97	095.75	096.28	097.03
21	21.00	0.00	?UNDEF	?UNDEF	21.50	0.00	095.39	096.81	118.60	0.00	095.95	095.58	096.06	096.74
22	20.80	0.00	?UNDEF	?UNDEF	21.10	0.00	095.30	096.59	117.90	0.00	095.86	095.63	095.80	096.55
23	15.20	0.00	?UNDEF	?UNDEF	15.30	0.00	095.21	096.62	89.60	0.00	095.75	095.52	095.70	096.32
24	15.20	0.00	?UNDEF	?UNDEF	16.20	0.00	095.11	096.49	80.00	0.00	095.64	095.25	095.55	096.32

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	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.40	0.00	103.20	?UNDEF	?UNDEF	?UNDEF	12.50	0.00	096.18	097.78	12.90	0.00	?UNDEF	?UNDEF
2	1.40	0.00	103.10	?UNDEF	?UNDEF	?UNDEF	13.70	0.00	096.41	097.59	13.90	0.00	?UNDEF	?UNDEF
3	1.40	0.00	103.35	?UNDEF	?UNDEF	?UNDEF	13.30	0.00	096.47	097.54	13.90	0.00	?UNDEF	?UNDEF
4	1.50	0.00	103.39	?UNDEF	?UNDEF	?UNDEF	12.80	0.00	096.59	097.48	12.80	0.00	?UNDEF	?UNDEF
5	1.40	0.00	103.31	?UNDEF	?UNDEF	?UNDEF	12.70	0.00	096.63	097.52	14.50	0.00	?UNDEF	?UNDEF
6	1.40	0.00	103.18	?UNDEF	?UNDEF	?UNDEF	12.90	0.00	096.80	097.60	13.30	0.00	?UNDEF	?UNDEF
7	1.40	0.00	103.11	?UNDEF	?UNDEF	?UNDEF	18.80	0.00	096.68	097.59	20.40	0.00	?UNDEF	?UNDEF
8	1.40	0.00	103.01	?UNDEF	?UNDEF	?UNDEF	18.30	0.00	096.68	097.43	19.20	0.00	?UNDEF	?UNDEF
9	1.40	0.00	103.12	?UNDEF	?UNDEF	?UNDEF	17.80	0.00	096.55	097.47	19.50	0.00	?UNDEF	?UNDEF
10	1.40	0.00	103.46	?UNDEF	?UNDEF	?UNDEF	17.60	0.00	096.47	097.38	19.20	0.00	?UNDEF	?UNDEF
11	1.40	0.00	103.66	?UNDEF	?UNDEF	?UNDEF	17.80	0.00	096.35	097.28	19.30	0.00	?UNDEF	?UNDEF
12	1.40	0.00	103.62	?UNDEF	?UNDEF	?UNDEF	17.80	0.00	096.28	097.18	19.20	0.00	?UNDEF	?UNDEF
13	1.40	0.00	103.68	?UNDEF	?UNDEF	?UNDEF	17.90	0.00	096.19	097.10	20.80	0.00	?UNDEF	?UNDEF
14	1.50	0.00	103.54	?UNDEF	?UNDEF	?UNDEF	17.80	0.00	096.15	097.06	21.10	0.00	?UNDEF	?UNDEF
15	1.40	0.00	103.08	?UNDEF	?UNDEF	?UNDEF	17.80	0.00	096.02	096.94	19.20	0.00	?UNDEF	?UNDEF
16	1.40	0.00	102.52	?UNDEF	?UNDEF	?UNDEF	17.80	0.00	095.95	096.73	17.60	0.00	?UNDEF	?UNDEF
17	1.40	0.00	102.25	?UNDEF	?UNDEF	?UNDEF	17.90	0.00	095.84	096.65	16.00	0.00	?UNDEF	?UNDEF
18	1.40	0.00	102.23	?UNDEF	?UNDEF	?UNDEF	18.30	0.00	095.66	096.57	16.00	0.00	?UNDEF	?UNDEF
19	1.50	0.00	102.25	?UNDEF	?UNDEF	?UNDEF	18.40	0.00	095.66	096.91	16.30	0.00	?UNDEF	?UNDEF
20	1.40	0.00	102.01	?UNDEF	?UNDEF	?UNDEF	16.60	0.00	095.66	096.86	15.90	0.00	?UNDEF	?UNDEF
21	1.40	0.00	102.31	?UNDEF	?UNDEF	?UNDEF	16.60	0.00	095.70	096.76	16.00	0.00	?UNDEF	?UNDEF
22	1.40	0.00	102.47	?UNDEF	?UNDEF	?UNDEF	16.60	0.00	095.73	096.77	15.80	0.00	?UNDEF	?UNDEF
23	1.40	0.00	102.62	?UNDEF	?UNDEF	?UNDEF	13.30	0.00	095.96	096.89	13.00	0.00	?UNDEF	?UNDEF
24	1.50	0.00	102.40	?UNDEF	?UNDEF	?UNDEF	12.90	0.00	096.07	097.00	13.10	0.00	?UNDEF	?UNDEF

	LOWER MONUMENTAL			ICE HARBOR			MCNARY			PASCO				
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	13.80	0.00	?UNDEF	?UNDEF	13.30	0.00	096.60	098.30	117.40	0.00	096.94	096.84	096.90	097.42
2	14.10	0.00	?UNDEF	?UNDEF	12.90	0.00	096.64	099.33	117.40	0.00	097.03	096.96	097.01	097.37
3	14.20	0.00	?UNDEF	?UNDEF	11.60	0.00	096.74	098.72	117.30	0.00	097.24	096.94	097.07	097.47
4	15.10	0.00	?UNDEF	?UNDEF	10.10	0.00	096.80	098.48	117.90	0.00	097.23	096.99	097.10	097.35
5	15.20	0.00	?UNDEF	?UNDEF	12.90	0.00	096.87	098.41	127.80	0.00	097.33	096.95	096.98	097.42
6	14.10	0.00	?UNDEF	?UNDEF	13.30	0.00	096.85	098.56	128.90	0.00	097.15	097.03	096.96	097.26
7	18.80	0.00	?UNDEF	?UNDEF	21.90	0.00	096.78	098.90	128.80	0.00	097.04	096.93	097.01	097.18
8	21.10	0.00	?UNDEF	?UNDEF	23.50	0.00	096.65	098.50	128.80	0.00	096.93	096.80	096.71	097.05
9	21.30	0.00	?UNDEF	?UNDEF	23.40	0.00	096.50	098.51	129.00	0.00	096.78	096.64	096.71	096.96
10	21.30	0.00	?UNDEF	?UNDEF	23.30	0.00	096.37	098.04	129.00	0.00	096.64	096.54	096.75	096.82
11	21.30	0.00	?UNDEF	?UNDEF	23.30	0.00	096.29	097.79	129.30	0.00	096.58	096.45	096.67	096.84
12	23.20	0.00	?UNDEF	?UNDEF	23.80	0.00	096.28	098.01	128.80	0.00	096.71	096.61	096.77	097.09
13	21.20	0.00	?UNDEF	?UNDEF	23.40	0.00	096.23	098.42	126.60	0.00	096.66	096.57	096.74	097.23
14	21.00	0.00	?UNDEF	?UNDEF	23.40	0.00	096.19	098.04	126.80	0.00	096.71	096.60	096.51	097.28
15	20.90	0.00	?UNDEF	?UNDEF	24.90	0.00	096.11	097.85	127.30	0.00	096.61	096.53	096.42	097.32
16	20.80	0.00	?UNDEF	?UNDEF	23.40	0.00	096.05	097.71	127.80	0.00	096.65	096.32	096.38	097.39
17	20.80	0.00	?UNDEF	?UNDEF	23.50	0.00	095.92	097.50	137.40	0.00	096.63	096.28	096.45	097.33
18	21.20	0.00	?UNDEF	?UNDEF	23.60	0.00	095.97	097.40	139.80	0.00	096.63	096.16	096.87	097.22
19	20.90	0.00	?UNDEF	?UNDEF	23.50	0.00	095.94	097.39	141.60	0.00	096.65	096.16	096.88	097.09
20	20.90	0.00	?UNDEF	?UNDEF	23.50	0.00	096.08	098.47	142.10	0.00	096.65	096.16	096.77	096.95
21	20.60	0.00	?UNDEF	?UNDEF	23.80	0.00	096.21	097.33	140.80	0.00	096.80	096.46	096.78	097.07
22	16.00	0.00	?UNDEF	?UNDEF	20.30	0.00	096.27	097.45	116.10	0.00	096.89	096.53	096.71	097.04
23	15.50	0.00	?UNDEF	?UNDEF	20.30	0.00	096.32	097.46	106.30	0.00	097.04	096.83	096.89	096.95
24	14.00	0.00	?UNDEF	?UNDEF	12.70	0.00	096.42	097.58	79.50	0.00	097.13	097.03	097.01	096.95

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DWRSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	
1	1.40	0.00	102.35	?UNDEF	?UNDEF	?UNDEF	13.70	0.00	095.80	097.01	13.40	0.00	?UNDEF	?UNDEF	
2	1.40	0.00	102.50	?UNDEF	?UNDEF	?UNDEF	13.60	0.00	095.98	097.04	13.70	0.00	?UNDEF	?UNDEF	
3	1.50	0.00	102.65	?UNDEF	?UNDEF	?UNDEF	13.60	0.00	095.91	097.14	15.50	0.00	?UNDEF	?UNDEF	
4	1.40	0.00	102.60	?UNDEF	?UNDEF	?UNDEF	13.60	0.00	095.92	096.96	15.30	0.00	?UNDEF	?UNDEF	
5	1.40	0.00	102.50	?UNDEF	?UNDEF	?UNDEF	14.10	0.00	095.96	097.04	13.70	0.00	?UNDEF	?UNDEF	
6	1.40	0.00	102.51	?UNDEF	?UNDEF	?UNDEF	15.10	0.00	095.89	097.10	14.40	0.00	?UNDEF	?UNDEF	
7	1.40	0.00	102.52	?UNDEF	?UNDEF	?UNDEF	15.70	0.00	095.88	096.95	14.60	0.00	?UNDEF	?UNDEF	
8	1.40	0.00	102.55	?UNDEF	?UNDEF	?UNDEF	15.80	0.00	095.91	096.97	16.00	0.00	?UNDEF	?UNDEF	
9	1.40	0.00	102.68	?UNDEF	?UNDEF	?UNDEF	15.80	0.00	096.00	097.05	16.00	0.00	?UNDEF	?UNDEF	
10	1.40	0.00	102.88	?UNDEF	?UNDEF	?UNDEF	15.70	0.00	095.95	097.01	16.10	0.00	?UNDEF	?UNDEF	
11	1.40	0.00	103.19	?UNDEF	?UNDEF	?UNDEF	13.60	0.00	096.12	097.13	16.00	0.00	?UNDEF	?UNDEF	
12	1.40	0.00	103.37	?UNDEF	?UNDEF	?UNDEF	13.40	0.00	096.11	097.16	15.80	0.00	?UNDEF	?UNDEF	
13	1.40	0.00	103.57	?UNDEF	?UNDEF	?UNDEF	13.40	0.00	096.17	097.17	16.20	0.00	?UNDEF	?UNDEF	
14	1.40	0.00	103.71	?UNDEF	?UNDEF	?UNDEF	13.90	0.00	096.16	097.05	16.10	0.00	?UNDEF	?UNDEF	
15	1.40	0.00	103.40	?UNDEF	?UNDEF	?UNDEF	20.50	0.00	096.16	097.05	20.30	0.00	?UNDEF	?UNDEF	
16	1.40	0.00	102.90	?UNDEF	?UNDEF	?UNDEF	20.90	0.00	095.96	096.89	20.50	0.00	?UNDEF	?UNDEF	
17	1.40	0.00	102.96	?UNDEF	?UNDEF	?UNDEF	22.70	0.00	095.92	096.86	20.60	0.00	?UNDEF	?UNDEF	
18	1.40	0.00	102.69	?UNDEF	?UNDEF	?UNDEF	21.00	0.00	096.03	097.10	20.80	0.00	?UNDEF	?UNDEF	
19	1.40	0.00	102.96	?UNDEF	?UNDEF	?UNDEF	20.90	0.00	095.93	097.12	20.40	0.00	?UNDEF	?UNDEF	
20	1.40	0.00	102.66	?UNDEF	?UNDEF	?UNDEF	20.70	0.00	095.97	097.05	20.20	0.00	?UNDEF	?UNDEF	
21	1.40	0.00	102.79	?UNDEF	?UNDEF	?UNDEF	21.30	0.00	095.98	097.05	21.80	0.00	?UNDEF	?UNDEF	
22	1.40	0.00	102.92	?UNDEF	?UNDEF	?UNDEF	20.70	0.00	096.04	097.00	20.00	0.00	?UNDEF	?UNDEF	
23	1.40	0.00	103.19	?UNDEF	?UNDEF	?UNDEF	12.90	0.00	096.06	097.17	13.60	0.00	?UNDEF	?UNDEF	
24	1.40	0.00	103.18	?UNDEF	?UNDEF	?UNDEF	14.10	0.00	096.10	097.60	12.90	0.00	?UNDEF	?UNDEF	
LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT	
1	14.00	0.00	?UNDEF	?UNDEF	12.70	0.00	096.03	097.04	70.40	0.00	096.49	096.12	096.24	096.87	
2	13.80	0.00	?UNDEF	?UNDEF	12.70	0.00	096.05	097.24	70.00	0.00	096.67	096.03	096.21	096.95	
3	13.80	0.00	?UNDEF	?UNDEF	12.60	0.00	096.12	097.39	70.30	0.00	096.51	096.16	096.36	096.93	
4	13.80	0.00	?UNDEF	?UNDEF	12.70	0.00	096.13	097.70	74.30	0.00	096.58	096.20	096.38	097.09	
5	13.80	0.00	?UNDEF	?UNDEF	13.00	0.00	096.07	097.74	84.10	0.00	096.56	096.06	096.38	097.08	
6	14.20	0.00	?UNDEF	?UNDEF	13.10	0.00	096.20	097.87	98.60	0.00	096.53	096.03	096.33	097.05	
7	15.90	0.00	?UNDEF	?UNDEF	13.60	0.00	096.07	097.83	112.80	0.00	096.50	095.76	096.36	096.99	
8	21.10	0.00	?UNDEF	?UNDEF	20.90	0.00	096.08	097.80	127.10	0.00	096.46	095.83	096.15	097.12	
9	21.60	0.00	?UNDEF	?UNDEF	21.20	0.00	095.89	097.77	128.20	0.00	096.45	095.92	096.26	097.01	
10	19.80	0.00	?UNDEF	?UNDEF	21.20	0.00	095.91	098.20	119.80	0.00	096.38	096.03	096.34	097.14	
11	19.80	0.00	?UNDEF	?UNDEF	21.10	0.00	096.08	097.73	100.40	0.00	096.59	096.23	096.40	097.48	
12	19.70	0.00	?UNDEF	?UNDEF	21.10	0.00	096.06	097.98	98.90	0.00	096.65	096.39	096.58	097.63	
13	19.60	0.00	?UNDEF	?UNDEF	22.60	0.00	096.14	098.17	98.30	0.00	096.66	096.40	096.61	097.79	
14	18.70	0.00	?UNDEF	?UNDEF	20.30	0.00	096.18	097.97	97.70	0.00	096.68	096.40	096.51	097.92	
15	20.30	0.00	?UNDEF	?UNDEF	21.70	0.00	096.10	097.94	98.40	0.00	096.65	096.44	096.49	098.05	
16	20.90	0.00	?UNDEF	?UNDEF	21.80	0.00	096.09	097.77	125.80	0.00	096.80	096.44	096.49	098.01	
17	20.40	0.00	?UNDEF	?UNDEF	20.70	0.00	096.10	097.77	122.40	0.00	096.82	096.41	096.37	098.04	
18	20.20	0.00	?UNDEF	?UNDEF	10.50	0.00	096.09	097.77	110.70	0.00	096.80	096.44	096.51	097.87	
19	13.60	0.00	?UNDEF	?UNDEF	9.90	0.00	096.13	098.77	110.20	0.00	096.86	096.49	096.42	097.80	
20	13.50	0.00	?UNDEF	?UNDEF	9.90	0.00	096.25	097.70	115.80	0.00	096.88	096.64	096.43	097.69	
21	20.00	0.00	?UNDEF	?UNDEF	12.90	0.00	096.30	098.54	116.20	0.00	096.93	096.68	096.48	097.56	
22	20.10	0.00	?UNDEF	?UNDEF	14.50	0.00	096.34	097.67	115.10	0.00	096.90	096.50	096.61	097.46	
23	14.40	0.00	?UNDEF	?UNDEF	10.10	0.00	096.41	098.02	90.80	0.00	096.94	096.56	096.61	097.43	
24	15.20	0.00	?UNDEF	?UNDEF	12.80	0.00	096.47	098.22	114.70	0.00	097.03	096.79	096.74	097.43	

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DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.
1	1.40	0.00	103.22	?UNDEF	?UNDEF	?UNDEF	13.50	0.00	097.23	098.33	13.90	0.00	?UNDEF	?UNDEF
2	1.40	0.00	103.14	?UNDEF	?UNDEF	?UNDEF	12.90	0.00	097.21	098.14	13.40	0.00	?UNDEF	?UNDEF
3	1.40	0.00	103.16	?UNDEF	?UNDEF	?UNDEF	12.80	0.00	097.15	098.06	13.20	0.00	?UNDEF	?UNDEF
4	1.40	0.00	102.89	?UNDEF	?UNDEF	?UNDEF	12.80	0.00	097.00	098.06	13.30	0.00	?UNDEF	?UNDEF
5	1.40	0.00	102.93	?UNDEF	?UNDEF	?UNDEF	15.40	0.00	096.92	097.99	16.10	0.00	?UNDEF	?UNDEF
6	1.40	0.00	103.23	?UNDEF	?UNDEF	?UNDEF	17.50	0.00	096.82	097.79	18.10	0.00	?UNDEF	?UNDEF
7	1.40	0.00	103.15	?UNDEF	?UNDEF	?UNDEF	18.60	0.00	096.75	097.67	18.60	0.00	?UNDEF	?UNDEF
8	1.40	0.00	103.08	?UNDEF	?UNDEF	?UNDEF	20.90	0.00	096.66	097.56	20.90	0.00	?UNDEF	?UNDEF
9	1.40	0.00	103.17	?UNDEF	?UNDEF	?UNDEF	21.10	0.00	096.50	097.47	21.20	0.00	?UNDEF	?UNDEF
10	1.40	0.00	103.22	?UNDEF	?UNDEF	?UNDEF	18.10	0.00	096.36	097.30	18.80	0.00	?UNDEF	?UNDEF
11	1.40	0.00	103.36	?UNDEF	?UNDEF	?UNDEF	18.00	0.00	096.32	097.18	18.80	0.00	?UNDEF	?UNDEF
12	1.40	0.00	103.12	?UNDEF	?UNDEF	?UNDEF	18.00	0.00	096.20	097.12	19.10	0.00	?UNDEF	?UNDEF
13	1.40	0.00	103.42	?UNDEF	?UNDEF	?UNDEF	18.00	0.00	096.15	097.05	18.90	0.00	?UNDEF	?UNDEF
14	1.40	0.00	103.71	?UNDEF	?UNDEF	?UNDEF	18.00	0.00	096.09	097.03	18.70	0.00	?UNDEF	?UNDEF
15	1.40	0.00	103.53	?UNDEF	?UNDEF	?UNDEF	18.00	0.00	095.84	096.90	20.10	0.00	?UNDEF	?UNDEF
16	1.40	0.00	103.08	?UNDEF	?UNDEF	?UNDEF	18.00	0.00	095.80	096.86	18.70	0.00	?UNDEF	?UNDEF
17	1.40	0.00	102.88	?UNDEF	?UNDEF	?UNDEF	21.20	0.00	095.74	096.82	22.50	0.00	?UNDEF	?UNDEF
18	1.40	0.00	102.72	?UNDEF	?UNDEF	?UNDEF	24.80	0.00	095.71	096.78	25.50	0.00	?UNDEF	?UNDEF
19	1.40	0.00	102.88	?UNDEF	?UNDEF	?UNDEF	25.00	0.00	095.68	096.78	24.60	0.00	?UNDEF	?UNDEF
20	1.40	0.00	102.54	?UNDEF	?UNDEF	?UNDEF	26.10	0.00	095.67	096.75	24.60	0.00	?UNDEF	?UNDEF
21	1.40	0.00	102.64	?UNDEF	?UNDEF	?UNDEF	21.20	0.00	095.67	096.75	24.70	0.00	?UNDEF	?UNDEF
22	1.40	0.00	102.53	?UNDEF	?UNDEF	?UNDEF	18.40	0.00	095.76	096.83	24.90	0.00	?UNDEF	?UNDEF
23	1.40	0.00	102.40	?UNDEF	?UNDEF	?UNDEF	14.20	0.00	095.65	097.14	17.70	0.00	?UNDEF	?UNDEF
24	1.40	0.00	102.30	?UNDEF	?UNDEF	?UNDEF	13.40	0.00	095.70	097.04	13.10	0.00	?UNDEF	?UNDEF
LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT
1	21.10	0.00	?UNDEF	?UNDEF	24.30	0.00	096.97	098.11	65.00	0.00	097.23	096.76	097.07	097.52
2	14.10	0.00	?UNDEF	?UNDEF	20.80	0.00	096.91	098.06	63.50	0.00	097.17	096.53	097.01	097.45
3	14.00	0.00	?UNDEF	?UNDEF	20.40	0.00	096.83	097.98	64.00	0.00	097.12	096.61	096.92	097.38
4	13.80	0.00	?UNDEF	?UNDEF	20.80	0.00	096.79	097.93	75.20	0.00	096.96	096.55	096.86	097.22
5	15.70	0.00	?UNDEF	?UNDEF	18.40	0.00	096.75	098.13	80.30	0.00	097.00	096.46	096.75	097.18
6	18.00	0.00	?UNDEF	?UNDEF	19.70	0.00	096.65	098.19	103.40	0.00	096.87	096.34	096.67	097.01
7	19.40	0.00	?UNDEF	?UNDEF	20.30	0.00	096.52	097.92	110.30	0.00	096.77	096.39	096.59	096.79
8	20.40	0.00	?UNDEF	?UNDEF	20.60	0.00	096.39	097.83	126.90	0.00	096.64	096.40	096.45	096.68
9	20.40	0.00	?UNDEF	?UNDEF	21.70	0.00	096.21	098.18	128.80	0.00	096.48	096.26	096.42	096.53
10	20.80	0.00	?UNDEF	?UNDEF	20.20	0.00	096.07	097.38	119.80	0.00	096.37	096.28	096.58	096.52
11	18.80	0.00	?UNDEF	?UNDEF	20.20	0.00	096.00	097.49	118.20	0.00	096.42	096.36	096.64	096.58
12	20.40	0.00	?UNDEF	?UNDEF	16.00	0.00	095.95	098.86	102.10	0.00	096.35	096.28	096.44	096.66
13	18.70	0.00	?UNDEF	?UNDEF	12.80	0.00	095.96	098.10	81.10	0.00	096.35	096.23	096.56	096.73
14	18.70	0.00	?UNDEF	?UNDEF	12.90	0.00	095.89	097.61	80.10	0.00	096.28	096.19	096.37	096.92
15	18.70	0.00	?UNDEF	?UNDEF	14.50	0.00	095.80	097.66	80.30	0.00	096.18	096.08	096.23	097.01
16	18.80	0.00	?UNDEF	?UNDEF	20.30	0.00	095.67	097.78	79.90	0.00	096.26	096.04	096.05	097.07
17	21.50	0.00	?UNDEF	?UNDEF	22.60	0.00	095.64	097.47	72.50	0.00	096.21	095.95	095.89	097.03
18	26.20	0.00	?UNDEF	?UNDEF	26.40	0.00	095.62	098.28	102.90	0.00	096.24	095.84	095.91	097.00
19	26.00	0.00	?UNDEF	?UNDEF	24.20	0.00	095.71	096.83	100.50	0.00	096.26	095.87	095.93	096.96
20	26.30	0.00	?UNDEF	?UNDEF	24.60	0.00	095.72	096.89	92.00	0.00	096.24	095.87	095.98	096.96
21	26.50	0.00	?UNDEF	?UNDEF	25.50	0.00	095.72	097.15	85.50	0.00	096.32	095.93	095.88	096.98
22	28.20	0.00	?UNDEF	?UNDEF	25.30	0.00	095.81	096.98	79.40	0.00	096.39	096.04	095.97	096.95
23	18.40	0.00	?UNDEF	?UNDEF	20.50	0.00	095.85	096.88	69.90	0.00	096.45	095.82	096.02	096.86
24	14.00	0.00	?UNDEF	?UNDEF	12.60	0.00	095.96	096.96	70.10	0.00	096.40	095.92	096.15	096.86

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WALLA WALLA DISTRICT HYDRO PROJECTS
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	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.40	0.00	103.38	?UNDEF	?UNDEF	?UNDEF	13.20	0.00	097.44	098.29	14.20	0.00	?UNDEF	?UNDEF
2	1.40	0.00	103.29	?UNDEF	?UNDEF	?UNDEF	13.20	0.00	097.42	098.17	14.10	0.00	?UNDEF	?UNDEF
3	1.40	0.00	103.24	?UNDEF	?UNDEF	?UNDEF	14.90	0.00	097.19	098.15	15.60	0.00	?UNDEF	?UNDEF
4	1.40	0.00	103.21	?UNDEF	?UNDEF	?UNDEF	14.70	0.00	097.07	098.11	15.70	0.00	?UNDEF	?UNDEF
5	1.50	0.00	103.30	?UNDEF	?UNDEF	?UNDEF	15.00	0.00	097.05	098.09	15.70	0.00	?UNDEF	?UNDEF
6	1.40	0.00	103.02	?UNDEF	?UNDEF	?UNDEF	14.90	0.00	097.08	098.13	16.10	0.00	?UNDEF	?UNDEF
7	1.40	0.00	103.05	?UNDEF	?UNDEF	?UNDEF	17.50	0.00	097.13	098.17	18.30	0.00	?UNDEF	?UNDEF
8	1.40	0.00	103.20	?UNDEF	?UNDEF	?UNDEF	19.80	0.00	097.15	098.09	19.90	0.00	?UNDEF	?UNDEF
9	1.40	0.00	103.58	?UNDEF	?UNDEF	?UNDEF	20.00	0.00	097.31	098.25	20.20	0.00	?UNDEF	?UNDEF
10	1.50	0.00	103.81	?UNDEF	?UNDEF	?UNDEF	20.40	0.00	097.45	098.22	20.10	0.00	?UNDEF	?UNDEF
11	1.40	0.00	103.95	?UNDEF	?UNDEF	?UNDEF	20.40	0.00	097.65	098.56	20.50	0.00	?UNDEF	?UNDEF
12	1.40	0.00	104.17	?UNDEF	?UNDEF	?UNDEF	20.50	0.00	097.87	098.79	20.10	0.00	?UNDEF	?UNDEF
13	1.40	0.00	104.29	?UNDEF	?UNDEF	?UNDEF	20.70	0.00	098.02	098.84	20.20	0.00	?UNDEF	?UNDEF
14	1.40	0.00	104.55	?UNDEF	?UNDEF	?UNDEF	20.90	0.00	098.12	098.91	20.80	0.00	?UNDEF	?UNDEF
15	1.40	0.00	104.41	?UNDEF	?UNDEF	?UNDEF	20.80	0.00	098.13	098.92	22.30	0.00	?UNDEF	?UNDEF
16	1.40	0.00	104.24	?UNDEF	?UNDEF	?UNDEF	18.10	0.00	098.20	098.99	21.40	0.00	?UNDEF	?UNDEF
17	1.40	0.00	103.77	?UNDEF	?UNDEF	?UNDEF	17.60	0.00	098.27	098.93	20.90	0.00	?UNDEF	?UNDEF
18	1.40	0.00	103.79	?UNDEF	?UNDEF	?UNDEF	17.60	0.00	098.16	098.81	21.00	0.00	?UNDEF	?UNDEF
19	1.50	0.00	103.77	?UNDEF	?UNDEF	?UNDEF	17.60	0.00	098.13	098.78	22.50	0.00	?UNDEF	?UNDEF
20	1.40	0.00	103.45	?UNDEF	?UNDEF	?UNDEF	19.40	0.00	097.99	098.63	21.00	0.00	?UNDEF	?UNDEF
21	1.40	0.00	103.33	?UNDEF	?UNDEF	?UNDEF	19.40	0.00	097.90	098.69	21.40	0.00	?UNDEF	?UNDEF
22	1.40	0.00	103.24	?UNDEF	?UNDEF	?UNDEF	19.00	0.00	097.54	098.50	21.00	0.00	?UNDEF	?UNDEF
23	1.40	0.00	103.32	?UNDEF	?UNDEF	?UNDEF	16.40	0.00	097.55	098.34	20.70	0.00	?UNDEF	?UNDEF
24	1.40	0.00	103.22	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	097.38	098.43	14.90	0.00	?UNDEF	?UNDEF
	LOWER MONUMENTAL			ICE HARBOR			MCNARY			PASCO				
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	13.60	0.00	?UNDEF	?UNDEF	12.90	0.00	096.54	?UNDEF	84.50	0.00	096.98	096.73	096.80	098.02
2	13.60	0.00	?UNDEF	?UNDEF	12.90	0.00	096.45	?UNDEF	90.70	0.00	097.07	096.71	096.79	097.86
3	15.50	0.00	?UNDEF	?UNDEF	12.90	0.00	096.47	?UNDEF	85.30	0.00	097.08	096.68	096.63	097.83
4	15.00	0.00	?UNDEF	?UNDEF	13.00	0.00	096.51	?UNDEF	85.10	0.00	096.94	096.84	096.66	097.75
5	15.00	0.00	?UNDEF	?UNDEF	13.10	0.00	096.53	098.28	93.30	0.00	097.20	096.94	096.71	097.66
6	15.10	0.00	?UNDEF	?UNDEF	13.80	0.00	096.64	098.35	90.20	0.00	097.18	097.19	096.81	097.76
7	18.00	0.00	?UNDEF	?UNDEF	18.20	0.00	096.71	098.45	88.90	0.00	097.26	097.15	096.98	097.72
8	20.10	0.00	?UNDEF	?UNDEF	21.40	0.00	096.71	098.72	94.00	0.00	097.41	097.31	097.26	097.78
9	20.60	0.00	?UNDEF	?UNDEF	20.00	0.00	096.92	098.94	79.10	0.00	097.62	097.37	097.28	097.70
10	19.60	0.00	?UNDEF	?UNDEF	20.80	0.00	096.99	098.91	78.60	0.00	097.75	097.64	097.58	097.95
11	19.60	0.00	?UNDEF	?UNDEF	19.30	0.00	097.22	099.57	76.80	0.00	097.95	098.00	097.82	098.17
12	21.20	0.00	?UNDEF	?UNDEF	19.60	0.00	097.40	099.26	76.80	0.00	098.24	098.20	097.82	098.31
13	20.30	0.00	?UNDEF	?UNDEF	20.00	0.00	097.53	100.23	85.30	0.00	098.39	098.33	098.01	098.47
14	20.70	0.00	?UNDEF	?UNDEF	20.00	0.00	097.70	099.43	86.40	0.00	098.39	098.60	098.12	098.77
15	20.30	0.00	?UNDEF	?UNDEF	19.90	0.00	097.82	099.50	86.00	0.00	098.44	098.67	098.29	098.83
16	21.80	0.00	?UNDEF	?UNDEF	20.10	0.00	097.74	099.36	87.30	0.00	098.27	098.48	098.12	098.82
17	21.00	0.00	?UNDEF	?UNDEF	22.00	0.00	097.65	099.20	89.20	0.00	098.13	098.35	097.82	098.70
18	21.20	0.00	?UNDEF	?UNDEF	22.10	0.00	097.46	099.04	89.60	0.00	097.89	098.07	097.58	098.43
19	27.00	0.00	?UNDEF	?UNDEF	22.30	0.00	097.38	098.82	85.00	0.00	097.85	097.58	097.50	098.34
20	27.00	0.00	?UNDEF	?UNDEF	25.10	0.00	097.33	098.58	85.60	0.00	097.68	097.35	097.41	098.26
21	27.60	0.00	?UNDEF	?UNDEF	25.70	0.00	097.21	098.51	86.10	0.00	097.68	097.33	097.36	098.17
22	26.90	0.00	?UNDEF	?UNDEF	25.20	0.00	097.15	098.41	83.50	0.00	097.59	097.06	097.28	097.95
23	26.80	0.00	?UNDEF	?UNDEF	25.00	0.00	097.11	098.23	74.70	0.00	097.42	097.22	097.14	097.74
24	26.30	0.00	?UNDEF	?UNDEF	24.90	0.00	096.99	098.17	68.00	0.00	097.32	096.94	097.01	097.74

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DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.
1	1.40	0.00	103.38	?UNDEF	?UNDEF	?UNDEF	13.90	0.00	098.09	098.76	13.00	0.00	?UNDEF	?UNDEF
2	1.40	0.00	103.42	?UNDEF	?UNDEF	?UNDEF	13.90	0.00	098.16	098.68	12.80	0.00	?UNDEF	?UNDEF
3	1.40	0.00	103.54	?UNDEF	?UNDEF	?UNDEF	14.10	0.00	098.24	098.76	12.80	0.00	?UNDEF	?UNDEF
4	1.40	0.00	103.61	?UNDEF	?UNDEF	?UNDEF	13.80	0.00	098.40	098.90	14.20	0.00	?UNDEF	?UNDEF
5	1.40	0.00	103.65	?UNDEF	?UNDEF	?UNDEF	13.80	0.00	098.54	098.99	12.90	0.00	?UNDEF	?UNDEF
6	1.40	0.00	103.56	?UNDEF	?UNDEF	?UNDEF	13.80	0.00	098.54	099.07	13.10	0.00	?UNDEF	?UNDEF
7	1.40	0.00	103.59	?UNDEF	?UNDEF	?UNDEF	13.80	0.00	098.64	099.15	13.50	0.00	?UNDEF	?UNDEF
8	1.40	0.00	103.70	?UNDEF	?UNDEF	?UNDEF	14.20	0.00	098.56	099.19	13.60	0.00	?UNDEF	?UNDEF
9	1.40	0.00	103.77	?UNDEF	?UNDEF	?UNDEF	20.40	0.00	098.66	099.18	20.80	0.00	?UNDEF	?UNDEF
10	1.40	0.00	103.71	?UNDEF	?UNDEF	?UNDEF	20.90	0.00	098.66	099.21	21.50	0.00	?UNDEF	?UNDEF
11	1.50	0.00	103.93	?UNDEF	?UNDEF	?UNDEF	20.90	0.00	098.74	099.23	21.10	0.00	?UNDEF	?UNDEF
12	1.40	0.00	104.06	?UNDEF	?UNDEF	?UNDEF	20.70	0.00	098.81	099.32	20.80	0.00	?UNDEF	?UNDEF
13	1.40	0.00	104.46	?UNDEF	?UNDEF	?UNDEF	13.20	0.00	098.81	099.40	13.20	0.00	?UNDEF	?UNDEF
14	1.40	0.00	104.64	?UNDEF	?UNDEF	?UNDEF	12.70	0.00	098.81	099.45	12.70	0.00	?UNDEF	?UNDEF
15	1.40	0.00	104.66	?UNDEF	?UNDEF	?UNDEF	12.90	0.00	098.70	099.34	12.90	0.00	?UNDEF	?UNDEF
16	1.40	0.00	104.39	?UNDEF	?UNDEF	?UNDEF	12.70	0.00	098.47	099.10	12.80	0.00	?UNDEF	?UNDEF
17	1.40	0.00	104.23	?UNDEF	?UNDEF	?UNDEF	12.90	0.00	098.33	099.13	12.90	0.00	?UNDEF	?UNDEF
18	1.40	0.00	103.93	?UNDEF	?UNDEF	?UNDEF	13.10	0.00	098.29	099.06	13.00	0.00	?UNDEF	?UNDEF
19	1.40	0.00	104.23	?UNDEF	?UNDEF	?UNDEF	13.20	0.00	098.25	098.90	13.30	0.00	?UNDEF	?UNDEF
20	1.40	0.00	103.66	?UNDEF	?UNDEF	?UNDEF	17.50	0.00	098.13	098.92	18.50	0.00	?UNDEF	?UNDEF
21	1.40	0.00	103.58	?UNDEF	?UNDEF	?UNDEF	18.30	0.00	098.03	098.83	18.60	0.00	?UNDEF	?UNDEF
22	1.40	0.00	103.45	?UNDEF	?UNDEF	?UNDEF	18.00	0.00	097.86	098.53	17.10	0.00	?UNDEF	?UNDEF
23	1.40	0.00	103.50	?UNDEF	?UNDEF	?UNDEF	17.80	0.00	097.79	098.43	17.10	0.00	?UNDEF	?UNDEF
24	1.40	0.00	103.42	?UNDEF	?UNDEF	?UNDEF	13.50	0.00	097.54	098.49	14.20	0.00	?UNDEF	?UNDEF
LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT
1	15.90	0.00	?UNDEF	?UNDEF	21.00	0.00	097.09	098.52	69.20	0.00	097.78	098.07	097.65	097.00
2	15.40	0.00	?UNDEF	?UNDEF	20.80	0.00	097.25	098.64	69.10	0.00	097.88	098.20	097.74	097.18
3	15.40	0.00	?UNDEF	?UNDEF	22.10	0.00	097.36	098.77	97.00	0.00	098.06	098.34	098.04	097.31
4	15.70	0.00	?UNDEF	?UNDEF	13.10	0.00	097.51	098.79	123.30	0.00	098.16	098.52	098.03	097.46
5	15.40	0.00	?UNDEF	?UNDEF	12.90	0.00	097.59	099.06	119.90	0.00	098.33	098.63	098.05	097.56
6	15.40	0.00	?UNDEF	?UNDEF	12.90	0.00	097.69	099.04	138.50	0.00	098.39	098.74	098.21	097.68
7	15.40	0.00	?UNDEF	?UNDEF	12.90	0.00	097.67	098.87	137.20	0.00	098.31	098.63	098.17	097.65
8	15.50	0.00	?UNDEF	?UNDEF	13.40	0.00	097.57	100.35	139.40	0.00	098.07	098.55	098.04	097.51
9	22.40	0.00	?UNDEF	?UNDEF	20.70	0.00	097.63	099.40	138.10	0.00	098.27	098.56	098.15	097.76
10	21.10	0.00	?UNDEF	?UNDEF	20.90	0.00	097.62	099.35	120.70	0.00	098.24	098.39	098.07	097.81
11	21.40	0.00	?UNDEF	?UNDEF	20.80	0.00	097.65	099.84	116.90	0.00	098.23	098.32	098.23	098.01
12	20.80	0.00	?UNDEF	?UNDEF	22.00	0.00	097.73	099.59	116.00	0.00	098.42	098.52	098.36	098.39
13	13.70	0.00	?UNDEF	?UNDEF	14.30	0.00	097.70	?UNDEF	98.90	0.00	098.39	098.48	098.23	098.54
14	13.50	0.00	?UNDEF	?UNDEF	14.30	0.00	097.67	?UNDEF	94.60	0.00	098.32	098.41	098.28	098.83
15	13.50	0.00	?UNDEF	?UNDEF	12.70	0.00	097.58	?UNDEF	95.20	0.00	098.27	098.47	098.12	099.04
16	13.70	0.00	?UNDEF	?UNDEF	12.80	0.00	097.59	?UNDEF	99.20	0.00	098.24	098.29	097.96	099.31
17	14.00	0.00	?UNDEF	?UNDEF	13.30	0.00	097.38	?UNDEF	103.40	0.00	098.07	098.15	097.85	099.32
18	13.80	0.00	?UNDEF	?UNDEF	14.40	0.00	097.29	?UNDEF	104.20	0.00	097.98	098.06	097.70	099.07
19	13.80	0.00	?UNDEF	?UNDEF	12.90	0.00	097.19	?UNDEF	102.20	0.00	097.89	097.92	097.44	098.99
20	13.80	0.00	?UNDEF	?UNDEF	12.90	0.00	097.13	?UNDEF	104.00	0.00	097.74	097.82	097.31	098.92
21	13.80	0.00	?UNDEF	?UNDEF	13.00	0.00	096.88	?UNDEF	104.40	0.00	097.60	097.52	097.16	098.59
22	13.80	0.00	?UNDEF	?UNDEF	12.90	0.00	096.74	?UNDEF	101.60	0.00	097.28	097.34	097.00	098.28
23	13.80	0.00	?UNDEF	?UNDEF	13.00	0.00	096.67	?UNDEF	90.60	0.00	097.27	097.30	096.95	098.20
24	13.90	0.00	?UNDEF	?UNDEF	13.00	0.00	096.57	?UNDEF	86.80	0.00	097.20	097.09	096.89	098.20

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	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.
1	1.50	0.00	105.66	?UNDEF	?UNDEF	?UNDEF	13.90	0.00	097.18	098.25	12.60	0.00	?UNDEF	?UNDEF
2	1.40	0.00	105.58	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	097.12	098.07	12.60	0.00	?UNDEF	?UNDEF
3	1.40	0.00	105.55	?UNDEF	?UNDEF	?UNDEF	13.90	0.00	097.00	098.07	12.50	0.00	?UNDEF	?UNDEF
4	1.40	0.00	105.49	?UNDEF	?UNDEF	?UNDEF	13.80	0.00	096.97	098.14	12.40	0.00	?UNDEF	?UNDEF
5	1.40	0.00	105.45	?UNDEF	?UNDEF	?UNDEF	13.90	0.00	096.94	098.11	12.70	0.00	?UNDEF	?UNDEF
6	1.50	0.00	105.39	?UNDEF	?UNDEF	?UNDEF	13.80	0.00	097.07	098.04	14.10	0.00	?UNDEF	?UNDEF
7	1.40	0.00	104.73	?UNDEF	?UNDEF	?UNDEF	13.80	0.00	097.27	098.06	12.50	0.00	?UNDEF	?UNDEF
8	1.40	0.00	104.34	?UNDEF	?UNDEF	?UNDEF	13.80	0.00	097.27	098.08	12.50	0.00	?UNDEF	?UNDEF
9	1.40	0.00	104.51	?UNDEF	?UNDEF	?UNDEF	13.90	0.00	097.31	098.11	12.80	0.00	?UNDEF	?UNDEF
10	1.50	0.00	104.94	?UNDEF	?UNDEF	?UNDEF	13.80	0.00	097.48	098.27	14.10	0.00	?UNDEF	?UNDEF
11	1.40	0.00	105.14	?UNDEF	?UNDEF	?UNDEF	13.70	0.00	097.51	098.31	14.20	0.00	?UNDEF	?UNDEF
12	1.40	0.00	105.14	?UNDEF	?UNDEF	?UNDEF	12.80	0.00	097.66	098.33	12.90	0.00	?UNDEF	?UNDEF
13	1.40	0.00	105.07	?UNDEF	?UNDEF	?UNDEF	12.80	0.00	097.55	098.31	12.80	0.00	?UNDEF	?UNDEF
14	1.40	0.00	104.80	?UNDEF	?UNDEF	?UNDEF	12.80	0.00	097.51	098.18	13.00	0.00	?UNDEF	?UNDEF
15	1.50	0.00	105.04	?UNDEF	?UNDEF	?UNDEF	13.00	0.00	097.52	098.19	14.40	0.00	?UNDEF	?UNDEF
16	1.40	0.00	104.25	?UNDEF	?UNDEF	?UNDEF	12.80	0.00	097.37	098.16	14.60	0.00	?UNDEF	?UNDEF
17	1.40	0.00	103.44	?UNDEF	?UNDEF	?UNDEF	13.00	0.00	097.28	098.23	14.80	0.00	?UNDEF	?UNDEF
18	1.40	0.00	103.06	?UNDEF	?UNDEF	?UNDEF	20.20	0.00	097.36	098.27	20.90	0.00	?UNDEF	?UNDEF
19	1.50	0.00	103.44	?UNDEF	?UNDEF	?UNDEF	20.70	0.00	097.41	098.32	21.60	0.00	?UNDEF	?UNDEF
20	1.40	0.00	103.06	?UNDEF	?UNDEF	?UNDEF	22.50	0.00	097.66	098.28	21.10	0.00	?UNDEF	?UNDEF
21	1.40	0.00	103.12	?UNDEF	?UNDEF	?UNDEF	21.10	0.00	097.81	098.74	21.20	0.00	?UNDEF	?UNDEF
22	1.40	0.00	103.16	?UNDEF	?UNDEF	?UNDEF	20.70	0.00	097.87	098.64	21.10	0.00	?UNDEF	?UNDEF
23	1.40	0.00	103.20	?UNDEF	?UNDEF	?UNDEF	20.60	0.00	097.88	098.50	21.10	0.00	?UNDEF	?UNDEF
24	1.40	0.00	103.23	?UNDEF	?UNDEF	?UNDEF	14.60	0.00	097.96	098.58	21.10	0.00	?UNDEF	?UNDEF
	LOWER MONUMENTAL			ICE HARBOR			MCNARY			PASCO				
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT
1	14.50	0.00	?UNDEF	?UNDEF	18.50	0.00	096.26	097.16	105.10	0.00	096.72	096.29	096.64	096.19
2	14.40	0.00	?UNDEF	?UNDEF	18.20	0.00	096.25	097.12	109.40	0.00	096.68	096.29	096.63	096.05
3	14.40	0.00	?UNDEF	?UNDEF	13.30	0.00	096.22	097.23	110.70	0.00	096.67	096.42	096.62	095.98
4	14.30	0.00	?UNDEF	?UNDEF	12.90	0.00	096.20	097.34	105.10	0.00	096.52	096.43	096.62	095.94
5	14.40	0.00	?UNDEF	?UNDEF	12.90	0.00	096.22	097.38	111.20	0.00	096.81	096.45	096.63	095.99
6	14.40	0.00	?UNDEF	?UNDEF	13.00	0.00	096.29	097.48	103.70	0.00	097.01	096.66	096.73	095.96
7	14.70	0.00	?UNDEF	?UNDEF	12.70	0.00	096.32	097.48	113.60	0.00	097.08	096.84	096.77	096.00
8	14.60	0.00	?UNDEF	?UNDEF	13.00	0.00	096.40	097.82	126.10	0.00	097.03	096.90	096.86	096.04
9	14.50	0.00	?UNDEF	?UNDEF	12.80	0.00	096.38	097.95	124.10	0.00	096.99	096.91	096.81	096.04
10	14.50	0.00	?UNDEF	?UNDEF	12.60	0.00	096.38	097.96	123.80	0.00	097.09	096.92	096.95	095.98
11	14.50	0.00	?UNDEF	?UNDEF	12.80	0.00	096.41	098.12	118.10	0.00	097.30	096.90	096.83	096.03
12	14.20	0.00	?UNDEF	?UNDEF	12.80	0.00	096.45	098.16	99.30	0.00	097.34	096.97	097.02	096.12
13	15.30	0.00	?UNDEF	?UNDEF	12.80	0.00	096.49	098.18	96.40	0.00	097.23	096.97	097.08	096.08
14	13.90	0.00	?UNDEF	?UNDEF	12.80	0.00	096.47	098.19	98.40	0.00	097.11	097.01	097.07	096.26
15	13.60	0.00	?UNDEF	?UNDEF	12.80	0.00	096.49	098.32	100.10	0.00	097.27	097.06	097.15	096.40
16	13.70	0.00	?UNDEF	?UNDEF	13.00	0.00	096.53	098.78	124.10	0.00	097.46	097.05	097.11	096.45
17	13.90	0.00	?UNDEF	?UNDEF	13.30	0.00	096.47	098.56	136.40	0.00	097.51	097.14	097.34	096.66
18	20.80	0.00	?UNDEF	?UNDEF	22.00	0.00	096.67	098.47	136.50	0.00	097.56	097.17	097.10	096.69
19	21.20	0.00	?UNDEF	?UNDEF	20.90	0.00	096.58	098.53	135.60	0.00	097.49	097.35	097.46	096.79
20	21.30	0.00	?UNDEF	?UNDEF	20.70	0.00	096.62	098.88	148.50	0.00	097.57	097.45	097.39	096.70
21	21.20	0.00	?UNDEF	?UNDEF	22.20	0.00	096.62	098.37	149.70	0.00	097.57	097.65	097.43	096.74
22	21.50	0.00	?UNDEF	?UNDEF	20.70	0.00	096.67	098.42	147.50	0.00	097.62	097.52	097.38	096.79
23	21.20	0.00	?UNDEF	?UNDEF	20.60	0.00	096.74	099.12	95.20	0.00	097.55	097.75	097.43	096.87
24	21.10	0.00	?UNDEF	?UNDEF	20.50	0.00	096.81	098.42	70.00	0.00	097.63	097.80	097.48	096.87

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HOUR	DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.		
1	1.40	0.00	105.44	?UNDEF	?UNDEF	?UNDEF	18.10	0.00	099.02	099.58	14.00	0.00	?UNDEF	?UNDEF		
2	1.40	0.00	105.46	?UNDEF	?UNDEF	?UNDEF	17.80	0.00	099.02	099.56	13.80	0.00	?UNDEF	?UNDEF		
3	1.40	0.00	105.21	?UNDEF	?UNDEF	?UNDEF	17.80	0.00	099.07	099.56	15.40	0.00	?UNDEF	?UNDEF		
4	1.40	0.00	105.18	?UNDEF	?UNDEF	?UNDEF	17.80	0.00	099.02	099.58	18.30	0.00	?UNDEF	?UNDEF		
5	1.40	0.00	105.51	?UNDEF	?UNDEF	?UNDEF	17.60	0.00	098.86	099.49	18.50	0.00	?UNDEF	?UNDEF		
6	1.40	0.00	105.78	?UNDEF	?UNDEF	?UNDEF	18.10	0.00	098.86	099.49	18.50	0.00	?UNDEF	?UNDEF		
7	1.40	0.00	105.79	?UNDEF	?UNDEF	?UNDEF	19.40	0.00	098.79	099.45	19.90	0.00	?UNDEF	?UNDEF		
8	1.40	0.00	105.89	?UNDEF	?UNDEF	?UNDEF	19.90	0.00	098.75	099.40	21.40	0.00	?UNDEF	?UNDEF		
9	1.40	0.00	106.26	?UNDEF	?UNDEF	?UNDEF	19.90	0.00	098.66	099.33	21.80	0.00	?UNDEF	?UNDEF		
10	1.40	0.00	106.49	?UNDEF	?UNDEF	?UNDEF	15.40	0.00	098.54	099.24	17.60	0.00	?UNDEF	?UNDEF		
11	1.50	0.00	106.83	?UNDEF	?UNDEF	?UNDEF	15.40	0.00	098.36	099.15	15.90	0.00	?UNDEF	?UNDEF		
12	1.40	0.00	106.53	?UNDEF	?UNDEF	?UNDEF	15.20	0.00	098.09	099.24	15.80	0.00	?UNDEF	?UNDEF		
13	1.40	0.00	106.61	?UNDEF	?UNDEF	?UNDEF	13.60	0.00	098.29	099.37	14.50	0.00	?UNDEF	?UNDEF		
14	1.40	0.00	106.61	?UNDEF	?UNDEF	?UNDEF	14.20	0.00	098.14	099.21	14.50	0.00	?UNDEF	?UNDEF		
15	1.40	0.00	000.00	?UNDEF	?UNDEF	?UNDEF	15.30	0.00	098.09	098.98	14.40	0.00	?UNDEF	?UNDEF		
16	1.40	0.00	106.24	?UNDEF	?UNDEF	?UNDEF	16.00	0.00	097.92	098.85	14.50	0.00	?UNDEF	?UNDEF		
17	1.40	0.00	105.98	?UNDEF	?UNDEF	?UNDEF	16.50	0.00	097.85	098.74	16.30	0.00	?UNDEF	?UNDEF		
18	1.40	0.00	106.07	?UNDEF	?UNDEF	?UNDEF	16.90	0.00	097.61	098.52	18.80	0.00	?UNDEF	?UNDEF		
19	1.40	0.00	105.98	?UNDEF	?UNDEF	?UNDEF	17.40	0.00	097.55	098.52	22.30	0.00	?UNDEF	?UNDEF		
20	1.50	0.00	105.72	?UNDEF	?UNDEF	?UNDEF	20.60	0.00	097.47	098.36	25.20	0.00	?UNDEF	?UNDEF		
21	1.40	0.00	105.51	?UNDEF	?UNDEF	?UNDEF	20.60	0.00	097.42	098.20	25.50	0.00	?UNDEF	?UNDEF		
22	1.40	0.00	105.58	?UNDEF	?UNDEF	?UNDEF	16.10	0.00	097.36	098.27	16.40	0.00	?UNDEF	?UNDEF		
23	1.40	0.00	105.60	?UNDEF	?UNDEF	?UNDEF	13.80	0.00	097.26	098.30	15.60	0.00	?UNDEF	?UNDEF		
24	1.40	0.00	105.72	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	097.22	098.27	13.30	0.00	?UNDEF	?UNDEF		
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT		
1	13.70	0.00	?UNDEF	?UNDEF	13.00	0.00	097.81	098.95	123.20	0.00	098.16	098.04	098.11	097.53		
2	13.90	0.00	?UNDEF	?UNDEF	12.80	0.00	097.85	098.99	117.60	0.00	098.10	098.00	098.08	097.38		
3	13.70	0.00	?UNDEF	?UNDEF	12.90	0.00	097.78	098.97	115.50	0.00	098.08	097.98	098.01	097.38		
4	13.80	0.00	?UNDEF	?UNDEF	13.20	0.00	097.75	098.93	112.00	0.00	098.06	097.96	097.89	097.25		
5	17.50	0.00	?UNDEF	?UNDEF	19.60	0.00	097.66	099.02	134.70	0.00	098.01	097.91	098.00	097.06		
6	17.70	0.00	?UNDEF	?UNDEF	18.30	0.00	097.65	099.10	137.50	0.00	097.96	097.99	097.92	097.05		
7	19.40	0.00	?UNDEF	?UNDEF	19.40	0.00	097.61	099.04	143.00	0.00	097.86	097.89	097.98	096.97		
8	21.20	0.00	?UNDEF	?UNDEF	19.30	0.00	097.54	099.11	150.70	0.00	097.95	097.85	097.76	096.78		
9	21.90	0.00	?UNDEF	?UNDEF	19.70	0.00	097.44	099.04	130.30	0.00	097.60	097.53	097.59	096.66		
10	19.90	0.00	?UNDEF	?UNDEF	21.20	0.00	097.40	098.85	118.80	0.00	097.53	097.45	097.50	096.92		
11	18.30	0.00	?UNDEF	?UNDEF	18.10	0.00	097.29	098.74	116.20	0.00	097.59	097.40	097.40	096.92		
12	18.30	0.00	?UNDEF	?UNDEF	12.90	0.00	097.28	098.81	118.70	0.00	097.58	097.33	097.47	097.10		
13	15.70	0.00	?UNDEF	?UNDEF	9.50	0.00	097.18	099.19	116.10	0.00	097.69	097.40	097.45	097.04		
14	17.10	0.00	?UNDEF	?UNDEF	10.90	0.00	097.11	098.93	120.30	0.00	097.53	097.42	097.30	097.21		
15	15.90	0.00	?UNDEF	?UNDEF	9.30	0.00	096.92	099.00	119.10	0.00	097.44	097.32	097.22	097.24		
16	15.70	0.00	?UNDEF	?UNDEF	9.30	0.00	096.86	098.61	148.50	0.00	097.44	097.18	096.96	097.38		
17	16.30	0.00	?UNDEF	?UNDEF	9.80	0.00	096.73	098.52	151.70	0.00	097.35	096.98	096.87	097.41		
18	16.50	0.00	?UNDEF	?UNDEF	18.10	0.00	096.64	098.44	149.90	0.00	097.26	096.86	096.78	097.17		
19	21.80	0.00	?UNDEF	?UNDEF	25.40	0.00	096.52	098.75	150.10	0.00	097.14	096.77	096.74	096.92		
20	27.40	0.00	?UNDEF	?UNDEF	29.60	0.00	096.44	098.54	149.30	0.00	097.14	096.63	096.68	096.60		
21	27.60	0.00	?UNDEF	?UNDEF	30.60	0.00	096.34	097.94	147.90	0.00	096.92	096.52	096.61	096.28		
22	27.60	0.00	?UNDEF	?UNDEF	30.50	0.00	096.19	097.76	119.30	0.00	096.88	096.35	096.60	096.24		
23	20.30	0.00	?UNDEF	?UNDEF	21.30	0.00	096.15	097.44	108.30	0.00	096.88	096.49	096.56	096.19		
24	14.60	0.00	?UNDEF	?UNDEF	18.10	0.00	096.27	097.27	103.40	0.00	096.84	096.45	096.55	096.19		

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HOUR	DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS
1	1.40	0.00	104.86	?UNDEF	?UNDEF	?UNDEF	14.70	0.00	096.90	097.83	13.40	0.00	?UNDEF	?UNDEF		
2	1.40	0.00	104.93	?UNDEF	?UNDEF	?UNDEF	13.70	0.00	097.10	098.50	14.60	0.00	?UNDEF	?UNDEF		
3	1.50	0.00	104.98	?UNDEF	?UNDEF	?UNDEF	13.50	0.00	097.44	098.46	14.30	0.00	?UNDEF	?UNDEF		
4	1.40	0.00	104.97	?UNDEF	?UNDEF	?UNDEF	12.70	0.00	097.56	098.32	12.70	0.00	?UNDEF	?UNDEF		
5	1.40	0.00	105.11	?UNDEF	?UNDEF	?UNDEF	12.70	0.00	097.69	098.22	14.00	0.00	?UNDEF	?UNDEF		
6	1.40	0.00	105.11	?UNDEF	?UNDEF	?UNDEF	12.70	0.00	097.85	098.41	12.60	0.00	?UNDEF	?UNDEF		
7	1.50	0.00	105.31	?UNDEF	?UNDEF	?UNDEF	12.70	0.00	098.05	098.55	12.80	0.00	?UNDEF	?UNDEF		
8	1.40	0.00	105.33	?UNDEF	?UNDEF	?UNDEF	16.90	0.00	098.21	098.66	19.00	0.00	?UNDEF	?UNDEF		
9	1.40	0.00	105.31	?UNDEF	?UNDEF	?UNDEF	20.40	0.00	098.34	098.85	20.40	0.00	?UNDEF	?UNDEF		
10	1.40	0.00	105.28	?UNDEF	?UNDEF	?UNDEF	20.60	0.00	098.51	098.98	20.00	0.00	?UNDEF	?UNDEF		
11	1.40	0.00	105.20	?UNDEF	?UNDEF	?UNDEF	20.60	0.00	098.70	099.17	20.20	0.00	?UNDEF	?UNDEF		
12	1.40	0.00	105.32	?UNDEF	?UNDEF	?UNDEF	20.70	0.00	098.84	099.28	21.60	0.00	?UNDEF	?UNDEF		
13	1.40	0.00	105.32	?UNDEF	?UNDEF	?UNDEF	18.60	0.00	098.92	099.24	19.00	0.00	?UNDEF	?UNDEF		
14	1.40	0.00	105.62	?UNDEF	?UNDEF	?UNDEF	18.30	0.00	098.99	099.49	17.80	0.00	?UNDEF	?UNDEF		
15	1.40	0.00	105.73	?UNDEF	?UNDEF	?UNDEF	17.90	0.00	099.05	099.41	17.70	0.00	?UNDEF	?UNDEF		
16	1.40	0.00	105.68	?UNDEF	?UNDEF	?UNDEF	18.00	0.00	098.88	099.38	17.80	0.00	?UNDEF	?UNDEF		
17	1.50	0.00	105.74	?UNDEF	?UNDEF	?UNDEF	25.50	0.00	098.92	099.40	20.10	0.00	?UNDEF	?UNDEF		
18	1.40	0.00	105.64	?UNDEF	?UNDEF	?UNDEF	20.80	0.00	098.96	099.74	20.90	0.00	?UNDEF	?UNDEF		
19	1.40	0.00	105.74	?UNDEF	?UNDEF	?UNDEF	20.90	0.00	098.96	099.60	21.80	0.00	?UNDEF	?UNDEF		
20	1.40	0.00	105.72	?UNDEF	?UNDEF	?UNDEF	21.20	0.00	098.98	099.47	20.80	0.00	?UNDEF	?UNDEF		
21	1.40	0.00	105.75	?UNDEF	?UNDEF	?UNDEF	20.90	0.00	099.01	099.53	18.30	0.00	?UNDEF	?UNDEF		
22	1.40	0.00	105.57	?UNDEF	?UNDEF	?UNDEF	22.60	0.00	099.02	099.56	18.10	0.00	?UNDEF	?UNDEF		
23	1.40	0.00	105.53	?UNDEF	?UNDEF	?UNDEF	19.30	0.00	099.02	099.82	18.70	0.00	?UNDEF	?UNDEF		
24	1.40	0.00	105.41	?UNDEF	?UNDEF	?UNDEF	17.90	0.00	099.01	099.67	18.10	0.00	?UNDEF	?UNDEF		
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT		
1	13.70	0.00	?UNDEF	?UNDEF	12.50	0.00	095.62	096.63	114.40	0.00	096.21	096.39	095.77	096.69		
2	15.10	0.00	?UNDEF	?UNDEF	13.90	0.00	095.84	096.98	124.40	0.00	096.40	096.58	096.00	096.77		
3	14.70	0.00	?UNDEF	?UNDEF	12.70	0.00	095.97	097.28	125.80	0.00	096.54	096.75	096.14	096.77		
4	13.80	0.00	?UNDEF	?UNDEF	14.10	0.00	096.14	097.72	124.80	0.00	096.76	096.93	096.31	096.94		
5	13.70	0.00	?UNDEF	?UNDEF	12.60	0.00	096.32	097.98	124.50	0.00	096.86	097.03	096.28	096.97		
6	13.80	0.00	?UNDEF	?UNDEF	12.90	0.00	096.52	098.58	126.40	0.00	096.96	097.25	096.68	096.90		
7	14.00	0.00	?UNDEF	?UNDEF	12.50	0.00	096.70	098.95	127.60	0.00	097.15	097.45	096.84	096.97		
8	17.30	0.00	?UNDEF	?UNDEF	12.70	0.00	096.89	098.72	127.40	0.00	097.45	097.75	097.19	097.07		
9	19.70	0.00	?UNDEF	?UNDEF	13.40	0.00	097.19	099.43	126.90	0.00	097.82	097.84	097.41	097.21		
10	21.40	0.00	?UNDEF	?UNDEF	18.00	0.00	097.36	099.20	126.10	0.00	098.04	098.08	097.48	097.41		
11	19.00	0.00	?UNDEF	?UNDEF	18.40	0.00	097.47	099.26	125.00	0.00	097.99	098.16	097.69	097.49		
12	19.10	0.00	?UNDEF	?UNDEF	19.00	0.00	097.53	099.28	126.90	0.00	098.13	098.31	097.83	097.70		
13	19.30	0.00	?UNDEF	?UNDEF	19.60	0.00	097.70	099.48	126.60	0.00	098.25	098.44	097.97	097.85		
14	17.30	0.00	?UNDEF	?UNDEF	18.00	0.00	097.89	099.32	126.70	0.00	098.28	098.43	097.94	097.85		
15	17.00	0.00	?UNDEF	?UNDEF	18.10	0.00	097.71	099.25	126.80	0.00	098.17	098.40	097.89	097.83		
16	17.00	0.00	?UNDEF	?UNDEF	18.10	0.00	097.69	099.36	131.70	0.00	098.33	098.25	097.92	097.78		
17	19.70	0.00	?UNDEF	?UNDEF	21.10	0.00	097.63	099.34	133.80	0.00	098.19	098.24	097.74	097.75		
18	20.50	0.00	?UNDEF	?UNDEF	19.40	0.00	097.67	099.06	145.20	0.00	098.24	098.30	097.78	097.78		
19	21.20	0.00	?UNDEF	?UNDEF	19.40	0.00	097.70	099.01	149.20	0.00	098.24	098.15	097.82	097.82		
20	21.90	0.00	?UNDEF	?UNDEF	19.70	0.00	097.70	098.98	148.90	0.00	098.25	098.04	097.84	097.83		
21	21.20	0.00	?UNDEF	?UNDEF	19.60	0.00	097.70	099.39	147.60	0.00	098.24	098.15	097.81	097.68		
22	20.70	0.00	?UNDEF	?UNDEF	19.80	0.00	097.70	099.14	137.60	0.00	098.23	098.14	097.80	097.56		
23	19.10	0.00	?UNDEF	?UNDEF	19.50	0.00	097.74	099.01	128.60	0.00	098.10	098.14	097.93	097.60		
24	18.10	0.00	?UNDEF	?UNDEF	17.30	0.00	097.77	099.06	127.80	0.00	098.12	097.88	097.96	097.60		

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	DWRSHAK			STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.40	0.00	104.33	?UNDEF	?UNDEF	?UNDEF	14.90	0.00	095.83	096.99	17.20	0.00	?UNDEF	?UNDEF
2	1.40	0.00	104.31	?UNDEF	?UNDEF	?UNDEF	17.00	0.00	095.79	096.95	15.60	0.00	?UNDEF	?UNDEF
3	1.50	0.00	104.29	?UNDEF	?UNDEF	?UNDEF	16.80	0.00	095.81	097.89	17.40	0.00	?UNDEF	?UNDEF
4	1.90	0.00	104.19	?UNDEF	?UNDEF	?UNDEF	15.00	0.00	095.83	097.48	15.60	0.00	?UNDEF	?UNDEF
5	2.10	0.00	105.10	?UNDEF	?UNDEF	?UNDEF	15.00	0.00	096.00	097.09	15.70	0.00	?UNDEF	?UNDEF
6	2.10	0.00	106.40	?UNDEF	?UNDEF	?UNDEF	15.10	0.00	095.81	096.98	15.70	0.00	?UNDEF	?UNDEF
7	2.00	0.00	106.54	?UNDEF	?UNDEF	?UNDEF	20.10	0.00	095.97	096.87	19.80	0.00	?UNDEF	?UNDEF
8	2.10	0.00	106.65	?UNDEF	?UNDEF	?UNDEF	21.90	0.00	095.97	096.70	20.20	0.00	?UNDEF	?UNDEF
9	2.20	0.00	106.80	?UNDEF	?UNDEF	?UNDEF	19.90	0.00	096.00	096.87	20.10	0.00	?UNDEF	?UNDEF
10	2.20	0.00	107.39	?UNDEF	?UNDEF	?UNDEF	19.90	0.00	095.95	097.01	20.10	0.00	?UNDEF	?UNDEF
11	2.30	0.00	107.43	?UNDEF	?UNDEF	?UNDEF	19.90	0.00	096.13	096.92	20.10	0.00	?UNDEF	?UNDEF
12	2.30	0.00	106.78	?UNDEF	?UNDEF	?UNDEF	16.30	0.00	096.21	096.99	20.00	0.00	?UNDEF	?UNDEF
13	2.30	0.00	106.29	?UNDEF	?UNDEF	?UNDEF	15.80	0.00	096.30	097.04	20.30	0.00	?UNDEF	?UNDEF
14	2.30	0.00	106.13	?UNDEF	?UNDEF	?UNDEF	15.70	0.00	096.35	097.12	20.00	0.00	?UNDEF	?UNDEF
15	2.30	0.00	106.14	?UNDEF	?UNDEF	?UNDEF	17.60	0.00	096.37	097.16	20.10	0.00	?UNDEF	?UNDEF
16	2.20	0.00	106.15	?UNDEF	?UNDEF	?UNDEF	17.50	0.00	096.29	097.19	20.10	0.00	?UNDEF	?UNDEF
17	2.00	0.00	106.54	?UNDEF	?UNDEF	?UNDEF	21.00	0.00	096.32	097.21	20.10	0.00	?UNDEF	?UNDEF
18	1.50	0.00	107.35	?UNDEF	?UNDEF	?UNDEF	17.60	0.00	096.34	097.39	18.40	0.00	?UNDEF	?UNDEF
19	1.40	0.00	106.54	?UNDEF	?UNDEF	?UNDEF	17.90	0.00	096.49	097.36	18.00	0.00	?UNDEF	?UNDEF
20	1.40	0.00	106.16	?UNDEF	?UNDEF	?UNDEF	17.60	0.00	096.38	097.43	19.50	0.00	?UNDEF	?UNDEF
21	1.40	0.00	105.23	?UNDEF	?UNDEF	?UNDEF	17.60	0.00	096.43	097.35	17.90	0.00	?UNDEF	?UNDEF
22	1.40	0.00	104.90	?UNDEF	?UNDEF	?UNDEF	19.10	0.00	096.53	097.44	17.80	0.00	?UNDEF	?UNDEF
23	1.40	0.00	104.82	?UNDEF	?UNDEF	?UNDEF	13.00	0.00	096.62	097.66	13.90	0.00	?UNDEF	?UNDEF
24	1.40	0.00	105.04	?UNDEF	?UNDEF	?UNDEF	12.70	0.00	096.70	097.89	13.50	0.00	?UNDEF	?UNDEF

HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO	
	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	20.30	0.00	?UNDEF	?UNDEF	19.10	0.00	094.61	096.36	82.60	0.00	095.14	094.91	094.98	095.79
2	15.60	0.00	?UNDEF	?UNDEF	13.20	0.00	094.57	096.17	83.40	0.00	095.11	094.72	095.05	095.72
3	15.70	0.00	?UNDEF	?UNDEF	13.30	0.00	094.53	096.18	79.80	0.00	095.11	094.77	094.92	095.69
4	16.30	0.00	?UNDEF	?UNDEF	13.00	0.00	094.53	096.03	101.60	0.00	095.11	094.90	094.90	095.56
5	16.40	0.00	?UNDEF	?UNDEF	13.10	0.00	094.52	096.05	121.40	0.00	095.14	094.89	095.05	095.71
6	16.50	0.00	?UNDEF	?UNDEF	13.40	0.00	094.56	096.22	130.90	0.00	095.00	094.94	094.95	095.72
7	21.30	0.00	?UNDEF	?UNDEF	20.90	0.00	094.56	096.29	137.00	0.00	095.00	094.88	094.80	095.76
8	21.40	0.00	?UNDEF	?UNDEF	22.00	0.00	094.57	096.35	137.00	0.00	094.99	095.02	094.79	095.60
9	22.30	0.00	?UNDEF	?UNDEF	21.50	0.00	094.45	096.53	137.40	0.00	095.01	095.06	094.94	095.64
10	20.60	0.00	?UNDEF	?UNDEF	21.50	0.00	094.45	096.40	137.20	0.00	095.03	095.04	094.94	095.61
11	19.90	0.00	?UNDEF	?UNDEF	21.80	0.00	094.50	096.37	137.70	0.00	095.09	095.08	094.98	095.78
12	19.80	0.00	?UNDEF	?UNDEF	23.10	0.00	094.72	096.57	137.70	0.00	095.31	095.19	095.23	095.99
13	19.70	0.00	?UNDEF	?UNDEF	24.30	0.00	094.83	097.35	137.60	0.00	095.53	095.44	095.34	096.23
14	19.70	0.00	?UNDEF	?UNDEF	28.80	0.00	094.87	101.24	137.40	0.00	095.73	095.50	095.28	096.48
15	19.80	0.00	?UNDEF	?UNDEF	26.90	0.00	094.93	099.04	137.60	0.00	095.68	095.56	095.34	096.77
16	19.60	0.00	?UNDEF	?UNDEF	24.80	0.00	094.94	097.42	137.70	0.00	095.68	095.60	095.24	096.77
17	20.20	0.00	?UNDEF	?UNDEF	23.10	0.00	094.99	097.07	137.30	0.00	095.63	095.64	095.33	096.84
18	25.90	0.00	?UNDEF	?UNDEF	24.90	0.00	095.07	097.11	137.40	0.00	095.73	095.62	095.30	096.80
19	26.50	0.00	?UNDEF	?UNDEF	25.60	0.00	095.17	096.67	136.80	0.00	095.73	095.73	095.37	096.74
20	26.30	0.00	?UNDEF	?UNDEF	25.30	0.00	095.17	096.43	137.90	0.00	095.73	095.73	095.44	096.63
21	18.40	0.00	?UNDEF	?UNDEF	24.80	0.00	095.28	096.36	137.60	0.00	095.82	095.89	095.55	096.57
22	17.90	0.00	?UNDEF	?UNDEF	18.60	0.00	095.35	096.48	136.60	0.00	095.94	096.11	095.54	096.49
23	15.70	0.00	?UNDEF	?UNDEF	14.10	0.00	095.46	096.59	119.20	0.00	096.06	096.22	095.76	096.63
24	13.80	0.00	?UNDEF	?UNDEF	12.70	0.00	095.52	096.53	116.50	0.00	096.15	096.32	095.83	096.63

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DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.
1	1.40	0.00	106.20	?UNDEF	?UNDEF	?UNDEF	12.90	0.00	096.92	097.85	14.40	0.00	?UNDEF	?UNDEF
2	1.40	0.00	106.12	?UNDEF	?UNDEF	?UNDEF	12.90	0.00	096.84	097.80	13.70	0.00	?UNDEF	?UNDEF
3	1.40	0.00	106.30	?UNDEF	?UNDEF	?UNDEF	13.50	0.00	096.63	097.58	13.50	0.00	?UNDEF	?UNDEF
4	1.40	0.00	106.23	?UNDEF	?UNDEF	?UNDEF	13.50	0.00	096.71	097.54	13.30	0.00	?UNDEF	?UNDEF
5	1.40	0.00	106.19	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	096.55	097.47	13.30	0.00	?UNDEF	?UNDEF
6	1.40	0.00	105.73	?UNDEF	?UNDEF	?UNDEF	13.90	0.00	096.59	097.39	13.40	0.00	?UNDEF	?UNDEF
7	1.40	0.00	105.02	?UNDEF	?UNDEF	?UNDEF	18.20	0.00	096.55	097.47	15.00	0.00	?UNDEF	?UNDEF
8	1.40	0.00	103.81	?UNDEF	?UNDEF	?UNDEF	18.50	0.00	096.37	097.26	19.30	0.00	?UNDEF	?UNDEF
9	1.40	0.00	104.69	?UNDEF	?UNDEF	?UNDEF	19.00	0.00	096.31	097.19	19.20	0.00	?UNDEF	?UNDEF
10	1.40	0.00	105.12	?UNDEF	?UNDEF	?UNDEF	20.10	0.00	096.24	097.16	20.00	0.00	?UNDEF	?UNDEF
11	1.40	0.00	105.51	?UNDEF	?UNDEF	?UNDEF	20.80	0.00	096.36	097.26	20.10	0.00	?UNDEF	?UNDEF
12	1.40	0.00	105.66	?UNDEF	?UNDEF	?UNDEF	20.50	0.00	096.53	097.28	20.40	0.00	?UNDEF	?UNDEF
13	1.40	0.00	105.48	?UNDEF	?UNDEF	?UNDEF	20.50	0.00	096.53	097.29	21.50	0.00	?UNDEF	?UNDEF
14	1.40	0.00	105.35	?UNDEF	?UNDEF	?UNDEF	19.60	0.00	096.51	097.26	19.90	0.00	?UNDEF	?UNDEF
15	1.40	0.00	105.17	?UNDEF	?UNDEF	?UNDEF	18.10	0.00	096.46	097.09	21.50	0.00	?UNDEF	?UNDEF
16	1.40	0.00	104.95	?UNDEF	?UNDEF	?UNDEF	18.00	0.00	096.54	097.04	19.50	0.00	?UNDEF	?UNDEF
17	1.40	0.00	104.66	?UNDEF	?UNDEF	?UNDEF	18.30	0.00	096.35	096.98	19.60	0.00	?UNDEF	?UNDEF
18	1.50	0.00	104.37	?UNDEF	?UNDEF	?UNDEF	19.70	0.00	096.17	097.21	19.20	0.00	?UNDEF	?UNDEF
19	1.40	0.00	104.66	?UNDEF	?UNDEF	?UNDEF	18.00	0.00	096.01	097.08	19.20	0.00	?UNDEF	?UNDEF
20	1.40	0.00	104.26	?UNDEF	?UNDEF	?UNDEF	19.70	0.00	096.13	097.03	19.20	0.00	?UNDEF	?UNDEF
21	1.40	0.00	104.24	?UNDEF	?UNDEF	?UNDEF	15.60	0.00	095.84	097.27	19.00	0.00	?UNDEF	?UNDEF
22	1.40	0.00	104.23	?UNDEF	?UNDEF	?UNDEF	15.70	0.00	095.95	097.24	16.30	0.00	?UNDEF	?UNDEF
23	1.40	0.00	104.48	?UNDEF	?UNDEF	?UNDEF	15.10	0.00	095.93	097.07	17.30	0.00	?UNDEF	?UNDEF
24	1.40	0.00	104.47	?UNDEF	?UNDEF	?UNDEF	15.10	0.00	095.80	096.93	15.70	0.00	?UNDEF	?UNDEF
LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT
1	18.60	0.00	?UNDEF	?UNDEF	20.60	0.00	095.53	096.57	97.30	0.00	096.19	095.70	096.04	095.98
2	13.70	0.00	?UNDEF	?UNDEF	12.50	0.00	095.41	096.32	98.20	0.00	095.95	095.60	095.94	095.88
3	15.00	0.00	?UNDEF	?UNDEF	9.40	0.00	095.40	096.26	98.00	0.00	095.93	095.58	095.89	095.68
4	13.60	0.00	?UNDEF	?UNDEF	9.20	0.00	095.34	096.21	101.40	0.00	095.87	095.48	095.80	095.50
5	13.40	0.00	?UNDEF	?UNDEF	11.00	0.00	095.16	096.17	122.20	0.00	095.80	095.46	095.76	095.48
6	13.50	0.00	?UNDEF	?UNDEF	14.30	0.00	095.11	096.60	128.10	0.00	095.76	095.39	095.59	095.38
7	13.80	0.00	?UNDEF	?UNDEF	12.90	0.00	095.01	097.23	141.10	0.00	095.69	095.44	095.53	095.31
8	14.40	0.00	?UNDEF	?UNDEF	12.90	0.00	094.93	097.18	135.60	0.00	095.48	095.41	095.43	095.08
9	18.80	0.00	?UNDEF	?UNDEF	17.90	0.00	094.89	097.73	130.90	0.00	095.60	095.48	095.36	095.19
10	21.40	0.00	?UNDEF	?UNDEF	19.50	0.00	094.84	097.79	109.30	0.00	095.54	095.27	095.60	095.28
11	20.30	0.00	?UNDEF	?UNDEF	20.00	0.00	094.83	097.47	111.30	0.00	095.55	095.15	095.59	095.38
12	21.90	0.00	?UNDEF	?UNDEF	24.50	0.00	094.80	097.21	109.60	0.00	095.64	095.29	095.72	095.63
13	20.30	0.00	?UNDEF	?UNDEF	24.60	0.00	094.83	097.50	104.10	0.00	095.79	095.60	095.76	096.03
14	20.20	0.00	?UNDEF	?UNDEF	26.20	0.00	094.79	096.96	106.80	0.00	096.03	095.18	095.72	096.28
15	19.70	0.00	?UNDEF	?UNDEF	24.80	0.00	094.77	096.63	106.20	0.00	096.14	095.41	095.67	096.36
16	19.30	0.00	?UNDEF	?UNDEF	25.10	0.00	094.73	102.99	107.00	0.00	095.94	095.35	095.53	096.63
17	19.40	0.00	?UNDEF	?UNDEF	22.00	0.00	094.69	103.19	114.30	0.00	095.83	095.34	095.42	096.59
18	19.20	0.00	?UNDEF	?UNDEF	20.80	0.00	094.68	100.17	116.10	0.00	095.82	095.29	095.27	096.54
19	21.30	0.00	?UNDEF	?UNDEF	19.40	0.00	094.68	099.62	110.50	0.00	095.61	095.42	095.21	096.51
20	21.20	0.00	?UNDEF	?UNDEF	19.40	0.00	094.61	099.57	107.70	0.00	095.60	095.24	095.19	096.36
21	21.20	0.00	?UNDEF	?UNDEF	19.60	0.00	094.61	098.12	94.00	0.00	095.41	095.18	095.16	096.19
22	22.70	0.00	?UNDEF	?UNDEF	19.30	0.00	094.59	097.01	88.40	0.00	095.28	095.18	094.98	096.17
23	21.10	0.00	?UNDEF	?UNDEF	19.20	0.00	094.61	096.61	76.50	0.00	095.29	094.90	095.11	096.01
24	21.00	0.00	?UNDEF	?UNDEF	19.20	0.00	094.58	096.49	87.70	0.00	095.30	095.07	095.02	096.01

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	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.40	0.00	105.27	?UNDEF	?UNDEF	?UNDEF	17.10	0.00	099.42	100.05	20.50	0.00	?UNDEF	?UNDEF
2	1.40	0.00	105.14	?UNDEF	?UNDEF	?UNDEF	17.10	0.00	099.16	099.95	20.20	0.00	?UNDEF	?UNDEF
3	1.40	0.00	105.23	?UNDEF	?UNDEF	?UNDEF	16.90	0.00	099.07	099.84	20.20	0.00	?UNDEF	?UNDEF
4	1.40	0.00	105.09	?UNDEF	?UNDEF	?UNDEF	17.20	0.00	098.97	099.58	20.20	0.00	?UNDEF	?UNDEF
5	1.40	0.00	105.05	?UNDEF	?UNDEF	?UNDEF	17.00	0.00	098.85	099.47	20.10	0.00	?UNDEF	?UNDEF
6	1.40	0.00	104.74	?UNDEF	?UNDEF	?UNDEF	19.80	0.00	098.62	099.39	20.40	0.00	?UNDEF	?UNDEF
7	1.60	0.00	104.57	?UNDEF	?UNDEF	?UNDEF	20.10	0.00	098.46	099.25	21.30	0.00	?UNDEF	?UNDEF
8	1.40	0.00	105.96	?UNDEF	?UNDEF	?UNDEF	20.80	0.00	098.33	099.15	21.60	0.00	?UNDEF	?UNDEF
9	1.50	0.00	107.15	?UNDEF	?UNDEF	?UNDEF	20.80	0.00	098.23	099.01	21.80	0.00	?UNDEF	?UNDEF
10	1.40	0.00	107.58	?UNDEF	?UNDEF	?UNDEF	21.00	0.00	098.14	098.92	21.80	0.00	?UNDEF	?UNDEF
11	1.40	0.00	107.92	?UNDEF	?UNDEF	?UNDEF	20.50	0.00	098.02	098.81	21.80	0.00	?UNDEF	?UNDEF
12	1.50	0.00	108.05	?UNDEF	?UNDEF	?UNDEF	20.50	0.00	098.05	098.69	22.10	0.00	?UNDEF	?UNDEF
13	1.50	0.00	107.83	?UNDEF	?UNDEF	?UNDEF	24.80	0.00	097.98	098.62	21.60	0.00	?UNDEF	?UNDEF
14	1.60	0.00	105.83	?UNDEF	?UNDEF	?UNDEF	24.70	0.00	097.70	098.64	25.60	0.00	?UNDEF	?UNDEF
15	1.50	0.00	104.61	?UNDEF	?UNDEF	?UNDEF	25.10	0.00	097.73	098.38	27.20	0.00	?UNDEF	?UNDEF
16	1.50	0.00	103.90	?UNDEF	?UNDEF	?UNDEF	24.60	0.00	097.64	098.28	25.70	0.00	?UNDEF	?UNDEF
17	1.50	0.00	103.70	?UNDEF	?UNDEF	?UNDEF	24.60	0.00	097.57	098.17	29.80	0.00	?UNDEF	?UNDEF
18	1.50	0.00	103.43	?UNDEF	?UNDEF	?UNDEF	27.00	0.00	097.48	098.01	29.50	0.00	?UNDEF	?UNDEF
19	1.50	0.00	103.70	?UNDEF	?UNDEF	?UNDEF	29.30	0.00	097.42	098.06	29.50	0.00	?UNDEF	?UNDEF
20	1.50	0.00	104.19	?UNDEF	?UNDEF	?UNDEF	28.80	0.00	097.36	098.42	29.80	0.00	?UNDEF	?UNDEF
21	1.50	0.00	104.90	?UNDEF	?UNDEF	?UNDEF	24.60	0.00	097.13	098.23	30.20	0.00	?UNDEF	?UNDEF
22	1.40	0.00	105.03	?UNDEF	?UNDEF	?UNDEF	24.70	0.00	097.09	097.86	29.60	0.00	?UNDEF	?UNDEF
23	1.40	0.00	105.09	?UNDEF	?UNDEF	?UNDEF	21.00	0.00	097.16	097.93	25.20	0.00	?UNDEF	?UNDEF
24	1.40	0.00	105.84	?UNDEF	?UNDEF	?UNDEF	14.40	0.00	096.98	097.86	22.50	0.00	?UNDEF	?UNDEF
	LOWER MONUMENTAL			ICE HARBOR			MCNARY			PASCO				
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	26.70	0.00	?UNDEF	?UNDEF	25.50	0.00	097.79	098.84	82.80	0.00	098.57	098.18	098.17	098.09
2	27.30	0.00	?UNDEF	?UNDEF	25.10	0.00	097.72	098.73	84.30	0.00	098.36	098.02	098.05	097.98
3	26.80	0.00	?UNDEF	?UNDEF	25.00	0.00	097.66	098.51	85.80	0.00	098.26	098.02	098.12	097.77
4	20.40	0.00	?UNDEF	?UNDEF	24.90	0.00	097.52	098.41	85.70	0.00	098.21	097.95	097.99	097.64
5	19.90	0.00	?UNDEF	?UNDEF	20.40	0.00	097.38	098.27	92.40	0.00	098.05	097.40	097.72	097.39
6	19.90	0.00	?UNDEF	?UNDEF	21.60	0.00	097.30	098.20	114.20	0.00	097.96	097.46	097.65	097.27
7	21.10	0.00	?UNDEF	?UNDEF	22.50	0.00	097.18	098.08	118.40	0.00	097.84	097.44	097.54	097.06
8	21.20	0.00	?UNDEF	?UNDEF	21.00	0.00	096.92	098.21	124.60	0.00	097.56	097.47	097.27	096.93
9	21.40	0.00	?UNDEF	?UNDEF	20.80	0.00	096.84	098.34	120.40	0.00	097.50	097.23	097.30	096.67
10	21.10	0.00	?UNDEF	?UNDEF	20.80	0.00	096.68	098.30	115.00	0.00	097.36	096.95	097.17	096.54
11	21.20	0.00	?UNDEF	?UNDEF	20.80	0.00	096.57	098.04	111.30	0.00	097.29	097.02	097.12	096.58
12	22.70	0.00	?UNDEF	?UNDEF	21.10	0.00	096.48	098.09	111.40	0.00	097.33	096.98	097.18	096.50
13	21.20	0.00	?UNDEF	?UNDEF	20.80	0.00	096.40	098.17	115.80	0.00	097.24	097.02	097.04	096.57
14	21.20	0.00	?UNDEF	?UNDEF	20.80	0.00	096.28	098.20	117.90	0.00	097.19	096.85	096.98	096.62
15	25.90	0.00	?UNDEF	?UNDEF	20.90	0.00	096.23	098.08	118.60	0.00	097.10	096.75	096.78	096.58
16	26.20	0.00	?UNDEF	?UNDEF	26.20	0.00	096.15	097.99	120.50	0.00	096.89	096.79	096.68	096.62
17	29.50	0.00	?UNDEF	?UNDEF	28.10	0.00	096.06	097.76	125.60	0.00	096.92	096.69	096.49	096.64
18	29.70	0.00	?UNDEF	?UNDEF	29.50	0.00	096.00	097.56	120.50	0.00	096.88	096.49	096.58	096.61
19	33.90	0.00	?UNDEF	?UNDEF	34.20	0.00	095.92	097.51	108.30	0.00	096.67	096.56	096.49	096.53
20	34.20	0.00	?UNDEF	?UNDEF	34.30	0.00	095.90	097.22	105.40	0.00	096.61	096.23	096.43	096.53
21	34.40	0.00	?UNDEF	?UNDEF	34.20	0.00	095.87	096.85	103.40	0.00	096.47	096.14	096.34	096.44
22	35.00	0.00	?UNDEF	?UNDEF	34.00	0.00	095.74	096.77	102.10	0.00	096.42	096.18	096.12	096.24
23	33.50	0.00	?UNDEF	?UNDEF	34.00	0.00	095.68	096.71	105.70	0.00	096.22	096.23	096.04	096.12
24	26.70	0.00	?UNDEF	?UNDEF	28.70	0.00	095.62	096.63	98.50	0.00	096.24	096.04	096.11	096.12

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DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.40	0.00	104.62	?UNDEF	?UNDEF	?UNDEF	13.80	0.00	098.07	098.84	13.30	0.00	?UNDEF	?UNDEF
2	1.40	0.00	104.39	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	098.25	098.88	13.40	0.00	?UNDEF	?UNDEF
3	1.40	0.00	104.31	?UNDEF	?UNDEF	?UNDEF	14.20	0.00	098.45	098.94	13.50	0.00	?UNDEF	?UNDEF
4	1.40	0.00	104.38	?UNDEF	?UNDEF	?UNDEF	13.90	0.00	098.51	099.03	13.60	0.00	?UNDEF	?UNDEF
5	1.40	0.00	104.21	?UNDEF	?UNDEF	?UNDEF	14.10	0.00	098.48	099.14	13.90	0.00	?UNDEF	?UNDEF
6	1.50	0.00	104.01	?UNDEF	?UNDEF	?UNDEF	18.70	0.00	098.59	099.12	13.80	0.00	?UNDEF	?UNDEF
7	1.40	0.00	104.11	?UNDEF	?UNDEF	?UNDEF	20.00	0.00	098.66	099.15	19.60	0.00	?UNDEF	?UNDEF
8	1.40	0.00	104.37	?UNDEF	?UNDEF	?UNDEF	20.00	0.00	098.81	099.32	20.00	0.00	?UNDEF	?UNDEF
9	1.40	0.00	104.81	?UNDEF	?UNDEF	?UNDEF	20.60	0.00	098.93	099.46	22.00	0.00	?UNDEF	?UNDEF
10	1.40	0.00	105.27	?UNDEF	?UNDEF	?UNDEF	21.70	0.00	099.21	099.61	22.20	0.00	?UNDEF	?UNDEF
11	1.40	0.00	105.77	?UNDEF	?UNDEF	?UNDEF	21.40	0.00	099.26	099.78	22.50	0.00	?UNDEF	?UNDEF
12	1.40	0.00	106.25	?UNDEF	?UNDEF	?UNDEF	23.00	0.00	099.44	100.20	19.90	0.00	?UNDEF	?UNDEF
13	1.40	0.00	106.49	?UNDEF	?UNDEF	?UNDEF	21.30	0.00	099.56	100.29	19.50	0.00	?UNDEF	?UNDEF
14	1.40	0.00	106.40	?UNDEF	?UNDEF	?UNDEF	21.40	0.00	099.70	100.30	21.00	0.00	?UNDEF	?UNDEF
15	1.40	0.00	106.09	?UNDEF	?UNDEF	?UNDEF	20.40	0.00	099.78	100.31	20.00	0.00	?UNDEF	?UNDEF
16	1.40	0.00	105.86	?UNDEF	?UNDEF	?UNDEF	19.50	0.00	099.73	100.37	20.60	0.00	?UNDEF	?UNDEF
17	1.40	0.00	105.72	?UNDEF	?UNDEF	?UNDEF	19.60	0.00	099.70	100.38	20.00	0.00	?UNDEF	?UNDEF
18	1.40	0.00	105.47	?UNDEF	?UNDEF	?UNDEF	19.40	0.00	099.74	100.52	20.10	0.00	?UNDEF	?UNDEF
19	1.40	0.00	105.72	?UNDEF	?UNDEF	?UNDEF	19.50	0.00	099.88	100.40	20.20	0.00	?UNDEF	?UNDEF
20	1.40	0.00	105.53	?UNDEF	?UNDEF	?UNDEF	19.50	0.00	099.71	100.34	20.20	0.00	?UNDEF	?UNDEF
21	1.40	0.00	105.52	?UNDEF	?UNDEF	?UNDEF	19.80	0.00	099.74	100.22	20.60	0.00	?UNDEF	?UNDEF
22	1.40	0.00	105.52	?UNDEF	?UNDEF	?UNDEF	19.40	0.00	099.73	100.26	20.10	0.00	?UNDEF	?UNDEF
23	1.40	0.00	105.52	?UNDEF	?UNDEF	?UNDEF	16.90	0.00	099.71	100.23	20.10	0.00	?UNDEF	?UNDEF
24	1.40	0.00	105.44	?UNDEF	?UNDEF	?UNDEF	16.60	0.00	099.70	100.27	20.10	0.00	?UNDEF	?UNDEF
LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	13.60	0.00	?UNDEF	?UNDEF	12.60	0.00	096.56	097.89	66.80	0.00	097.39	097.44	097.48	097.39
2	13.30	0.00	?UNDEF	?UNDEF	10.00	0.00	096.64	097.96	60.40	0.00	097.49	097.62	097.44	097.31
3	13.30	0.00	?UNDEF	?UNDEF	12.70	0.00	096.74	097.87	75.10	0.00	097.53	097.75	097.38	097.24
4	13.30	0.00	?UNDEF	?UNDEF	12.70	0.00	096.81	098.09	96.60	0.00	097.77	097.82	097.63	097.18
5	14.80	0.00	?UNDEF	?UNDEF	12.70	0.00	096.90	098.30	107.70	0.00	097.87	097.92	097.63	097.27
6	13.50	0.00	?UNDEF	?UNDEF	12.70	0.00	096.99	098.53	108.80	0.00	098.03	098.06	097.54	097.26
7	19.10	0.00	?UNDEF	?UNDEF	12.90	0.00	097.10	098.63	111.00	0.00	097.96	098.16	097.66	097.18
8	19.90	0.00	?UNDEF	?UNDEF	22.10	0.00	097.19	098.76	116.80	0.00	098.07	098.24	097.79	097.31
9	21.20	0.00	?UNDEF	?UNDEF	23.60	0.00	097.17	098.88	135.50	0.00	098.20	098.41	097.92	097.26
10	21.10	0.00	?UNDEF	?UNDEF	22.50	0.00	097.33	099.20	136.40	0.00	098.35	098.56	098.17	097.57
11	21.10	0.00	?UNDEF	?UNDEF	23.60	0.00	097.46	099.61	132.20	0.00	098.65	098.69	098.33	097.73
12	22.60	0.00	?UNDEF	?UNDEF	22.10	0.00	097.59	099.47	131.00	0.00	098.67	098.80	098.44	097.95
13	21.10	0.00	?UNDEF	?UNDEF	22.10	0.00	097.72	099.62	129.80	0.00	098.85	098.90	098.58	098.38
14	21.50	0.00	?UNDEF	?UNDEF	22.00	0.00	097.88	099.58	141.00	0.00	098.96	099.04	098.53	098.80
15	21.30	0.00	?UNDEF	?UNDEF	22.50	0.00	097.91	099.88	142.70	0.00	099.08	099.13	098.50	098.84
16	21.30	0.00	?UNDEF	?UNDEF	22.10	0.00	097.98	099.58	145.20	0.00	098.99	099.05	098.55	098.94
17	21.30	0.00	?UNDEF	?UNDEF	22.20	0.00	098.02	099.44	146.50	0.00	099.01	099.08	098.42	098.94
18	21.30	0.00	?UNDEF	?UNDEF	22.00	0.00	098.02	099.34	143.50	0.00	099.05	098.94	098.48	098.86
19	21.40	0.00	?UNDEF	?UNDEF	22.30	0.00	098.10	099.24	123.70	0.00	099.00	098.92	098.46	098.90
20	25.80	0.00	?UNDEF	?UNDEF	25.20	0.00	098.03	099.19	101.30	0.00	098.86	098.63	098.32	098.85
21	26.80	0.00	?UNDEF	?UNDEF	25.00	0.00	098.02	099.17	98.70	0.00	098.82	098.46	098.40	098.71
22	26.30	0.00	?UNDEF	?UNDEF	25.00	0.00	097.96	099.13	97.80	0.00	098.77	098.50	098.18	098.50
23	26.50	0.00	?UNDEF	?UNDEF	25.00	0.00	097.95	098.94	83.40	0.00	098.60	098.47	098.29	098.50
24	26.60	0.00	?UNDEF	?UNDEF	24.90	0.00	097.86	098.92	82.80	0.00	098.48	098.31	098.19	098.50

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	DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.		
1	1.40	0.00	104.69	?UNDEF	?UNDEF	?UNDEF	13.90	0.00	098.71	099.39	13.40	0.00	?UNDEF	?UNDEF		
2	1.40	0.00	104.74	?UNDEF	?UNDEF	?UNDEF	13.90	0.00	098.62	099.27	13.40	0.00	?UNDEF	?UNDEF		
3	1.40	0.00	104.66	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	098.66	099.27	13.60	0.00	?UNDEF	?UNDEF		
4	1.50	0.00	104.48	?UNDEF	?UNDEF	?UNDEF	13.80	0.00	098.54	099.24	13.80	0.00	?UNDEF	?UNDEF		
5	1.40	0.00	104.08	?UNDEF	?UNDEF	?UNDEF	13.90	0.00	098.30	098.99	13.60	0.00	?UNDEF	?UNDEF		
6	1.40	0.00	103.97	?UNDEF	?UNDEF	?UNDEF	13.90	0.00	098.25	098.94	13.60	0.00	?UNDEF	?UNDEF		
7	1.40	0.00	103.90	?UNDEF	?UNDEF	?UNDEF	14.90	0.00	098.26	098.98	14.90	0.00	?UNDEF	?UNDEF		
8	1.40	0.00	104.08	?UNDEF	?UNDEF	?UNDEF	17.80	0.00	098.14	098.91	18.50	0.00	?UNDEF	?UNDEF		
9	1.50	0.00	104.32	?UNDEF	?UNDEF	?UNDEF	20.40	0.00	098.06	098.75	22.00	0.00	?UNDEF	?UNDEF		
10	1.40	0.00	104.51	?UNDEF	?UNDEF	?UNDEF	21.40	0.00	097.94	098.70	21.90	0.00	?UNDEF	?UNDEF		
11	1.40	0.00	104.74	?UNDEF	?UNDEF	?UNDEF	21.40	0.00	097.91	098.68	22.00	0.00	?UNDEF	?UNDEF		
12	1.40	0.00	105.04	?UNDEF	?UNDEF	?UNDEF	21.30	0.00	098.09	098.70	18.90	0.00	?UNDEF	?UNDEF		
13	1.40	0.00	105.14	?UNDEF	?UNDEF	?UNDEF	21.40	0.00	098.18	098.82	18.70	0.00	?UNDEF	?UNDEF		
14	1.60	0.00	104.98	?UNDEF	?UNDEF	?UNDEF	21.40	0.00	098.06	098.83	19.00	0.00	?UNDEF	?UNDEF		
15	1.50	0.00	104.83	?UNDEF	?UNDEF	?UNDEF	21.70	0.00	098.02	098.82	18.70	0.00	?UNDEF	?UNDEF		
16	1.40	0.00	105.75	?UNDEF	?UNDEF	?UNDEF	18.30	0.00	097.99	098.81	18.70	0.00	?UNDEF	?UNDEF		
17	1.40	0.00	106.15	?UNDEF	?UNDEF	?UNDEF	19.60	0.00	097.87	099.07	18.80	0.00	?UNDEF	?UNDEF		
18	1.40	0.00	105.72	?UNDEF	?UNDEF	?UNDEF	17.60	0.00	097.75	098.93	18.60	0.00	?UNDEF	?UNDEF		
19	1.40	0.00	106.15	?UNDEF	?UNDEF	?UNDEF	17.60	0.00	097.91	098.81	19.00	0.00	?UNDEF	?UNDEF		
20	1.40	0.00	105.45	?UNDEF	?UNDEF	?UNDEF	20.70	0.00	097.91	098.82	21.20	0.00	?UNDEF	?UNDEF		
21	1.40	0.00	105.53	?UNDEF	?UNDEF	?UNDEF	20.80	0.00	097.95	098.72	20.40	0.00	?UNDEF	?UNDEF		
22	1.40	0.00	105.53	?UNDEF	?UNDEF	?UNDEF	20.70	0.00	097.98	098.79	19.30	0.00	?UNDEF	?UNDEF		
23	1.40	0.00	105.55	?UNDEF	?UNDEF	?UNDEF	16.80	0.00	097.95	098.75	21.20	0.00	?UNDEF	?UNDEF		
24	1.40	0.00	105.37	?UNDEF	?UNDEF	?UNDEF	14.20	0.00	097.86	098.94	15.50	0.00	?UNDEF	?UNDEF		
	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT		
1	15.30	0.00	?UNDEF	?UNDEF	9.30	0.00	096.74	097.97	69.10	0.00	097.28	097.44	097.45	097.43		
2	14.80	0.00	?UNDEF	?UNDEF	9.30	0.00	096.66	097.86	66.10	0.00	097.22	097.26	097.23	097.36		
3	14.70	0.00	?UNDEF	?UNDEF	9.20	0.00	096.55	097.76	65.70	0.00	097.06	097.15	097.05	097.33		
4	14.90	0.00	?UNDEF	?UNDEF	9.40	0.00	096.48	097.65	65.30	0.00	097.02	097.06	097.21	097.26		
5	14.90	0.00	?UNDEF	?UNDEF	9.30	0.00	096.34	097.91	63.60	0.00	096.93	096.85	097.14	097.20		
6	14.90	0.00	?UNDEF	?UNDEF	9.60	0.00	096.34	097.96	65.30	0.00	096.92	096.83	097.01	097.13		
7	15.10	0.00	?UNDEF	?UNDEF	18.10	0.00	096.24	098.08	102.40	0.00	096.89	096.78	096.82	096.95		
8	18.10	0.00	?UNDEF	?UNDEF	18.30	0.00	096.15	098.28	114.40	0.00	096.82	096.84	096.75	096.85		
9	18.40	0.00	?UNDEF	?UNDEF	18.20	0.00	096.11	098.82	118.30	0.00	096.75	096.80	096.73	096.83		
10	18.20	0.00	?UNDEF	?UNDEF	18.40	0.00	096.06	098.66	119.00	0.00	096.74	096.96	096.82	096.95		
11	18.20	0.00	?UNDEF	?UNDEF	18.10	0.00	096.07	098.38	114.50	0.00	096.84	097.00	096.85	096.96		
12	18.20	0.00	?UNDEF	?UNDEF	18.10	0.00	096.11	098.40	95.10	0.00	096.83	097.01	097.00	097.07		
13	18.50	0.00	?UNDEF	?UNDEF	18.10	0.00	096.13	098.72	93.90	0.00	096.83	097.00	097.19	097.30		
14	18.20	0.00	?UNDEF	?UNDEF	18.10	0.00	096.24	098.61	94.00	0.00	096.98	096.93	097.08	097.57		
15	18.20	0.00	?UNDEF	?UNDEF	18.10	0.00	096.18	098.45	93.80	0.00	096.83	096.90	097.08	097.69		
16	18.20	0.00	?UNDEF	?UNDEF	18.40	0.00	096.20	098.27	93.80	0.00	096.83	096.92	096.94	097.79		
17	18.20	0.00	?UNDEF	?UNDEF	18.20	0.00	096.18	098.15	94.40	0.00	097.05	097.11	096.88	097.86		
18	18.20	0.00	?UNDEF	?UNDEF	18.10	0.00	096.18	098.00	99.20	0.00	096.89	097.06	096.85	097.86		
19	18.50	0.00	?UNDEF	?UNDEF	18.10	0.00	096.31	097.88	99.70	0.00	096.92	096.82	096.87	097.74		
20	20.70	0.00	?UNDEF	?UNDEF	20.50	0.00	096.38	097.78	115.50	0.00	097.05	097.11	097.06	097.74		
21	20.70	0.00	?UNDEF	?UNDEF	21.10	0.00	096.47	097.85	117.70	0.00	097.16	097.06	096.97	097.82		
22	20.80	0.00	?UNDEF	?UNDEF	20.60	0.00	096.46	097.89	116.30	0.00	097.21	097.08	097.02	097.72		
23	20.60	0.00	?UNDEF	?UNDEF	20.30	0.00	096.49	097.93	91.20	0.00	097.26	097.17	097.07	097.47		
24	13.80	0.00	?UNDEF	?UNDEF	13.00	0.00	096.52	097.95	73.60	0.00	097.30	097.35	097.14	097.47		

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WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

22 NOV 2001

	DWRSHAK			:	STREAMFLOW			:	LOWER GRANITE				:	LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	:	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.40	0.00	105.26	:	?UNDEF	?UNDEF	?UNDEF	:	12.60	0.00	099.51	100.74	:	12.70	0.00	?UNDEF	?UNDEF
2	1.40	0.00	105.26	:	?UNDEF	?UNDEF	?UNDEF	:	12.90	0.00	099.27	100.59	:	15.70	0.00	?UNDEF	?UNDEF
3	1.40	0.00	105.42	:	?UNDEF	?UNDEF	?UNDEF	:	12.70	0.00	099.42	100.63	:	12.80	0.00	?UNDEF	?UNDEF
4	1.50	0.00	105.19	:	?UNDEF	?UNDEF	?UNDEF	:	12.60	0.00	099.53	100.46	:	13.10	0.00	?UNDEF	?UNDEF
5	1.40	0.00	105.18	:	?UNDEF	?UNDEF	?UNDEF	:	12.70	0.00	099.62	100.53	:	12.70	0.00	?UNDEF	?UNDEF
6	1.40	0.00	105.16	:	?UNDEF	?UNDEF	?UNDEF	:	12.60	0.00	099.89	100.71	:	12.70	0.00	?UNDEF	?UNDEF
7	1.40	0.00	105.19	:	?UNDEF	?UNDEF	?UNDEF	:	12.70	0.00	099.88	100.51	:	12.80	0.00	?UNDEF	?UNDEF
8	1.40	0.00	104.97	:	?UNDEF	?UNDEF	?UNDEF	:	17.60	0.00	099.89	100.56	:	13.00	0.00	?UNDEF	?UNDEF
9	1.50	0.00	105.23	:	?UNDEF	?UNDEF	?UNDEF	:	19.90	0.00	099.86	100.51	:	21.40	0.00	?UNDEF	?UNDEF
10	1.40	0.00	105.34	:	?UNDEF	?UNDEF	?UNDEF	:	21.20	0.00	099.82	100.42	:	22.10	0.00	?UNDEF	?UNDEF
11	1.40	0.00	105.62	:	?UNDEF	?UNDEF	?UNDEF	:	21.20	0.00	099.71	100.48	:	22.00	0.00	?UNDEF	?UNDEF
12	1.40	0.00	105.52	:	?UNDEF	?UNDEF	?UNDEF	:	21.20	0.00	099.81	100.51	:	22.00	0.00	?UNDEF	?UNDEF
13	1.40	0.00	105.65	:	?UNDEF	?UNDEF	?UNDEF	:	21.30	0.00	099.68	100.66	:	22.00	0.00	?UNDEF	?UNDEF
14	1.40	0.00	105.82	:	?UNDEF	?UNDEF	?UNDEF	:	21.60	0.00	099.68	100.49	:	22.30	0.00	?UNDEF	?UNDEF
15	1.40	0.00	105.73	:	?UNDEF	?UNDEF	?UNDEF	:	18.70	0.00	099.58	100.41	:	20.10	0.00	?UNDEF	?UNDEF
16	1.40	0.00	105.54	:	?UNDEF	?UNDEF	?UNDEF	:	18.00	0.00	099.44	100.20	:	18.60	0.00	?UNDEF	?UNDEF
17	1.40	0.00	105.39	:	?UNDEF	?UNDEF	?UNDEF	:	18.00	0.00	099.38	100.19	:	18.50	0.00	?UNDEF	?UNDEF
18	1.40	0.00	105.16	:	?UNDEF	?UNDEF	?UNDEF	:	18.00	0.00	099.22	100.19	:	18.50	0.00	?UNDEF	?UNDEF
19	1.40	0.00	105.39	:	?UNDEF	?UNDEF	?UNDEF	:	18.00	0.00	099.33	100.10	:	18.70	0.00	?UNDEF	?UNDEF
20	1.40	0.00	105.14	:	?UNDEF	?UNDEF	?UNDEF	:	18.00	0.00	099.32	099.92	:	18.40	0.00	?UNDEF	?UNDEF
21	1.40	0.00	104.88	:	?UNDEF	?UNDEF	?UNDEF	:	18.40	0.00	099.14	099.78	:	18.30	0.00	?UNDEF	?UNDEF
22	1.40	0.00	104.75	:	?UNDEF	?UNDEF	?UNDEF	:	17.90	0.00	099.13	099.70	:	17.90	0.00	?UNDEF	?UNDEF
23	1.40	0.00	104.59	:	?UNDEF	?UNDEF	?UNDEF	:	14.10	0.00	099.08	099.57	:	14.60	0.00	?UNDEF	?UNDEF
24	1.40	0.00	104.65	:	?UNDEF	?UNDEF	?UNDEF	:	13.90	0.00	099.00	099.55	:	13.50	0.00	?UNDEF	?UNDEF
:	LOWER MONUMENTAL			:	ICE HARBOR			:	MCNARY				:	PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	:	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	:	GAS % SAT
1	13.30	0.00	?UNDEF	?UNDEF	:	12.40	0.00	097.50	099.34	:	95.60	0.00	098.91	099.51	098.75	:	098.99
2	13.50	0.00	?UNDEF	?UNDEF	:	12.20	0.00	097.46	099.19	:	97.70	0.00	098.74	099.38	098.86	:	098.89
3	13.70	0.00	?UNDEF	?UNDEF	:	12.20	0.00	097.53	099.27	:	97.30	0.00	098.88	099.31	098.99	:	098.78
4	13.60	0.00	?UNDEF	?UNDEF	:	12.20	0.00	097.73	099.31	:	96.20	0.00	098.89	099.35	098.86	:	098.84
5	15.20	0.00	?UNDEF	?UNDEF	:	12.10	0.00	097.59	099.29	:	115.60	0.00	098.77	099.23	098.91	:	098.69
6	15.40	0.00	?UNDEF	?UNDEF	:	12.30	0.00	097.63	099.38	:	118.80	0.00	098.84	099.29	098.93	:	098.73
7	13.70	0.00	?UNDEF	?UNDEF	:	13.20	0.00	097.66	099.36	:	119.10	0.00	098.81	099.13	098.90	:	098.63
8	14.00	0.00	?UNDEF	?UNDEF	:	20.00	0.00	097.69	099.40	:	119.10	0.00	098.78	099.27	098.91	:	098.50
9	21.00	0.00	?UNDEF	?UNDEF	:	23.20	0.00	097.67	099.46	:	120.60	0.00	098.74	099.20	098.83	:	098.52
10	21.10	0.00	?UNDEF	?UNDEF	:	21.30	0.00	097.78	099.65	:	106.10	0.00	098.51	099.02	098.82	:	098.33
11	21.00	0.00	?UNDEF	?UNDEF	:	21.20	0.00	097.76	099.81	:	104.30	0.00	098.84	098.94	098.94	:	098.36
12	21.40	0.00	?UNDEF	?UNDEF	:	23.00	0.00	097.80	099.77	:	103.70	0.00	099.17	098.94	099.11	:	098.51
13	22.50	0.00	?UNDEF	?UNDEF	:	22.50	0.00	097.92	099.81	:	92.60	0.00	099.01	099.20	098.94	:	098.81
14	20.90	0.00	?UNDEF	?UNDEF	:	20.90	0.00	097.81	099.53	:	90.80	0.00	098.80	099.12	098.87	:	098.84
15	18.70	0.00	?UNDEF	?UNDEF	:	18.60	0.00	097.79	099.69	:	92.30	0.00	098.68	099.04	098.60	:	098.73
16	18.60	0.00	?UNDEF	?UNDEF	:	18.50	0.00	097.68	099.17	:	84.30	0.00	098.57	098.89	098.52	:	098.60
17	18.60	0.00	?UNDEF	?UNDEF	:	18.90	0.00	097.61	099.22	:	83.40	0.00	098.45	098.79	098.19	:	098.65
18	18.90	0.00	?UNDEF	?UNDEF	:	18.50	0.00	097.48	098.93	:	79.60	0.00	098.29	098.67	098.09	:	098.52
19	18.70	0.00	?UNDEF	?UNDEF	:	18.50	0.00	097.31	098.63	:	85.00	0.00	098.17	098.38	097.95	:	098.22
20	18.70	0.00	?UNDEF	?UNDEF	:	18.20	0.00	097.35	098.51	:	90.30	0.00	097.83	098.20	097.78	:	098.07
21	18.60	0.00	?UNDEF	?UNDEF	:	18.30	0.00	097.13	098.37	:	90.10	0.00	097.85	098.02	097.66	:	097.77
22	18.60	0.00	?UNDEF	?UNDEF	:	18.20	0.00	096.97	098.24	:	88.50	0.00	097.62	097.80	097.54	:	097.68
23	18.50	0.00	?UNDEF	?UNDEF	:	18.20	0.00	096.91	098.12	:	87.80	0.00	097.54	097.74	097.56	:	097.58
24	15.00	0.00	?UNDEF	?UNDEF	:	9.80	0.00	096.82	098.07	:	87.80	0.00	097.44	097.61	097.64	:	097.58

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WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

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	DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR :	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	
1 :	1.40	0.00	104.76	?UNDEF	?UNDEF	?UNDEF	13.50	0.00	098.39	099.43	13.20	0.00	?UNDEF	?UNDEF	
2 :	1.40	0.00	104.66	?UNDEF	?UNDEF	?UNDEF	13.60	0.00	098.05	099.14	13.30	0.00	?UNDEF	?UNDEF	
3 :	1.40	0.00	104.38	?UNDEF	?UNDEF	?UNDEF	13.30	0.00	097.89	098.93	13.10	0.00	?UNDEF	?UNDEF	
4 :	1.50	0.00	104.41	?UNDEF	?UNDEF	?UNDEF	13.30	0.00	097.85	098.89	13.10	0.00	?UNDEF	?UNDEF	
5 :	1.40	0.00	104.31	?UNDEF	?UNDEF	?UNDEF	13.40	0.00	097.80	098.84	14.80	0.00	?UNDEF	?UNDEF	
6 :	1.40	0.00	104.38	?UNDEF	?UNDEF	?UNDEF	17.10	0.00	097.77	098.98	17.60	0.00	?UNDEF	?UNDEF	
7 :	1.40	0.00	104.28	?UNDEF	?UNDEF	?UNDEF	17.90	0.00	097.64	098.72	18.60	0.00	?UNDEF	?UNDEF	
8 :	1.40	0.00	104.33	?UNDEF	?UNDEF	?UNDEF	18.20	0.00	097.44	098.63	19.20	0.00	?UNDEF	?UNDEF	
9 :	1.50	0.00	104.41	?UNDEF	?UNDEF	?UNDEF	17.90	0.00	097.44	098.64	18.90	0.00	?UNDEF	?UNDEF	
10 :	1.40	0.00	104.71	?UNDEF	?UNDEF	?UNDEF	18.00	0.00	097.33	098.75	18.80	0.00	?UNDEF	?UNDEF	
11 :	1.40	0.00	106.25	?UNDEF	?UNDEF	?UNDEF	18.00	0.00	097.38	098.98	20.00	0.00	?UNDEF	?UNDEF	
12 :	1.40	0.00	106.48	?UNDEF	?UNDEF	?UNDEF	18.00	0.00	097.69	099.04	16.70	0.00	?UNDEF	?UNDEF	
13 :	1.40	0.00	106.21	?UNDEF	?UNDEF	?UNDEF	18.00	0.00	098.08	099.15	17.00	0.00	?UNDEF	?UNDEF	
14 :	1.40	0.00	105.85	?UNDEF	?UNDEF	?UNDEF	18.30	0.00	098.19	099.23	16.70	0.00	?UNDEF	?UNDEF	
15 :	1.40	0.00	105.80	?UNDEF	?UNDEF	?UNDEF	18.00	0.00	098.16	099.35	16.90	0.00	?UNDEF	?UNDEF	
16 :	1.40	0.00	105.49	?UNDEF	?UNDEF	?UNDEF	18.00	0.00	098.41	099.47	18.20	0.00	?UNDEF	?UNDEF	
17 :	1.40	0.00	105.24	?UNDEF	?UNDEF	?UNDEF	18.00	0.00	098.59	099.44	18.30	0.00	?UNDEF	?UNDEF	
18 :	1.40	0.00	105.03	?UNDEF	?UNDEF	?UNDEF	18.00	0.00	098.79	099.57	18.60	0.00	?UNDEF	?UNDEF	
19 :	1.50	0.00	105.24	?UNDEF	?UNDEF	?UNDEF	18.00	0.00	099.06	099.86	18.00	0.00	?UNDEF	?UNDEF	
20 :	1.40	0.00	105.07	?UNDEF	?UNDEF	?UNDEF	16.00	0.00	099.40	100.03	18.20	0.00	?UNDEF	?UNDEF	
21 :	1.40	0.00	105.15	?UNDEF	?UNDEF	?UNDEF	17.30	0.00	099.52	100.15	18.30	0.00	?UNDEF	?UNDEF	
22 :	1.40	0.00	105.15	?UNDEF	?UNDEF	?UNDEF	17.20	0.00	099.64	100.40	18.10	0.00	?UNDEF	?UNDEF	
23 :	1.50	0.00	105.10	?UNDEF	?UNDEF	?UNDEF	12.90	0.00	099.70	101.02	13.30	0.00	?UNDEF	?UNDEF	
24 :	1.40	0.00	105.15	?UNDEF	?UNDEF	?UNDEF	12.70	0.00	099.59	100.79	12.70	0.00	?UNDEF	?UNDEF	
	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR :	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT	
1 :	13.80	0.00	?UNDEF	?UNDEF	12.80	0.00	096.45	097.62	67.40	0.00	097.92	097.57	097.59	097.98	
2 :	14.00	0.00	?UNDEF	?UNDEF	12.90	0.00	096.33	097.49	68.70	0.00	097.85	097.60	097.53	097.85	
3 :	15.30	0.00	?UNDEF	?UNDEF	14.20	0.00	096.44	097.61	69.00	0.00	097.68	097.53	097.48	097.86	
4 :	13.80	0.00	?UNDEF	?UNDEF	12.60	0.00	096.32	097.70	68.60	0.00	097.52	097.41	097.46	097.85	
5 :	13.90	0.00	?UNDEF	?UNDEF	12.50	0.00	096.25	097.66	78.60	0.00	097.44	097.32	097.41	097.68	
6 :	17.50	0.00	?UNDEF	?UNDEF	13.10	0.00	096.17	097.72	99.80	0.00	097.35	097.28	097.22	097.61	
7 :	19.00	0.00	?UNDEF	?UNDEF	19.60	0.00	096.10	098.64	123.60	0.00	097.30	097.32	097.26	097.40	
8 :	19.30	0.00	?UNDEF	?UNDEF	18.40	0.00	096.14	098.14	123.20	0.00	097.31	097.53	097.30	097.36	
9 :	21.10	0.00	?UNDEF	?UNDEF	18.10	0.00	096.12	098.27	125.40	0.00	097.43	097.36	097.40	097.38	
10 :	19.20	0.00	?UNDEF	?UNDEF	18.10	0.00	096.00	098.08	126.90	0.00	097.46	097.27	097.43	097.36	
11 :	19.20	0.00	?UNDEF	?UNDEF	19.60	0.00	096.09	098.78	129.40	0.00	098.02	097.65	097.65	097.73	
12 :	19.20	0.00	?UNDEF	?UNDEF	18.10	0.00	096.20	098.18	131.40	0.00	097.91	097.74	097.90	097.96	
13 :	19.10	0.00	?UNDEF	?UNDEF	18.00	0.00	096.22	101.66	133.00	0.00	097.93	097.85	098.00	098.26	
14 :	18.10	0.00	?UNDEF	?UNDEF	18.40	0.00	096.51	105.01	133.10	0.00	098.48	098.15	097.91	098.42	
15 :	18.00	0.00	?UNDEF	?UNDEF	18.10	0.00	096.65	100.50	133.50	0.00	098.46	098.10	098.01	098.69	
16 :	18.40	0.00	?UNDEF	?UNDEF	18.20	0.00	096.78	100.34	133.30	0.00	098.43	098.20	098.13	098.83	
17 :	18.50	0.00	?UNDEF	?UNDEF	18.40	0.00	096.84	103.25	133.00	0.00	098.67	098.35	098.26	098.89	
18 :	18.60	0.00	?UNDEF	?UNDEF	18.40	0.00	096.99	101.22	132.70	0.00	098.72	098.51	098.28	098.94	
19 :	18.50	0.00	?UNDEF	?UNDEF	18.80	0.00	097.18	100.04	132.40	0.00	098.72	098.81	098.48	099.08	
20 :	18.60	0.00	?UNDEF	?UNDEF	18.50	0.00	097.16	099.82	135.60	0.00	098.76	099.08	098.57	099.18	
21 :	20.90	0.00	?UNDEF	?UNDEF	20.60	0.00	097.28	099.55	127.30	0.00	098.81	099.20	098.69	099.18	
22 :	20.90	0.00	?UNDEF	?UNDEF	20.40	0.00	097.33	099.43	98.10	0.00	098.93	099.28	098.65	099.11	
23 :	14.20	0.00	?UNDEF	?UNDEF	13.30	0.00	097.42	099.39	88.90	0.00	098.83	099.31	098.69	099.18	
24 :	13.50	0.00	?UNDEF	?UNDEF	12.60	0.00	097.40	099.26	87.70	0.00	098.96	099.46	098.69	099.18	

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	DWRSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.40	0.00	103.54	?UNDEF	?UNDEF	?UNDEF	13.90	0.00	096.73	098.01	15.90	0.00	?UNDEF	?UNDEF
2	1.40	0.00	103.26	?UNDEF	?UNDEF	?UNDEF	13.10	0.00	096.96	098.17	14.30	0.00	?UNDEF	?UNDEF
3	1.40	0.00	103.37	?UNDEF	?UNDEF	?UNDEF	13.00	0.00	096.99	098.04	12.80	0.00	?UNDEF	?UNDEF
4	1.40	0.00	103.33	?UNDEF	?UNDEF	?UNDEF	13.00	0.00	097.22	097.98	12.80	0.00	?UNDEF	?UNDEF
5	1.50	0.00	103.32	?UNDEF	?UNDEF	?UNDEF	12.90	0.00	097.17	097.97	14.30	0.00	?UNDEF	?UNDEF
6	1.40	0.00	103.14	?UNDEF	?UNDEF	?UNDEF	14.80	0.00	097.19	098.69	13.20	0.00	?UNDEF	?UNDEF
7	1.40	0.00	103.06	?UNDEF	?UNDEF	?UNDEF	19.20	0.00	097.17	098.17	18.20	0.00	?UNDEF	?UNDEF
8	1.50	0.00	102.55	?UNDEF	?UNDEF	?UNDEF	17.60	0.00	097.13	098.06	18.60	0.00	?UNDEF	?UNDEF
9	1.90	0.00	103.00	?UNDEF	?UNDEF	?UNDEF	18.30	0.00	097.30	098.06	18.50	0.00	?UNDEF	?UNDEF
10	1.90	0.00	103.03	?UNDEF	?UNDEF	?UNDEF	18.40	0.00	097.26	098.18	18.70	0.00	?UNDEF	?UNDEF
11	1.40	0.00	101.51	?UNDEF	?UNDEF	?UNDEF	18.40	0.00	097.54	098.34	19.00	0.00	?UNDEF	?UNDEF
12	1.40	0.00	100.80	?UNDEF	?UNDEF	?UNDEF	18.20	0.00	097.54	098.44	20.10	0.00	?UNDEF	?UNDEF
13	1.40	0.00	103.90	?UNDEF	?UNDEF	?UNDEF	18.70	0.00	097.60	098.55	18.60	0.00	?UNDEF	?UNDEF
14	1.50	0.00	105.05	?UNDEF	?UNDEF	?UNDEF	18.10	0.00	097.75	098.66	18.60	0.00	?UNDEF	?UNDEF
15	1.40	0.00	105.45	?UNDEF	?UNDEF	?UNDEF	19.70	0.00	097.87	098.67	20.80	0.00	?UNDEF	?UNDEF
16	1.40	0.00	105.34	?UNDEF	?UNDEF	?UNDEF	18.40	0.00	097.82	099.00	21.40	0.00	?UNDEF	?UNDEF
17	1.50	0.00	104.73	?UNDEF	?UNDEF	?UNDEF	20.00	0.00	097.93	098.98	22.40	0.00	?UNDEF	?UNDEF
18	1.40	0.00	103.34	?UNDEF	?UNDEF	?UNDEF	18.20	0.00	098.04	099.20	20.90	0.00	?UNDEF	?UNDEF
19	1.50	0.00	104.73	?UNDEF	?UNDEF	?UNDEF	18.50	0.00	097.96	099.18	20.80	0.00	?UNDEF	?UNDEF
20	1.40	0.00	104.46	?UNDEF	?UNDEF	?UNDEF	19.80	0.00	097.98	099.16	20.90	0.00	?UNDEF	?UNDEF
21	1.40	0.00	104.47	?UNDEF	?UNDEF	?UNDEF	18.10	0.00	098.04	099.23	22.70	0.00	?UNDEF	?UNDEF
22	1.40	0.00	104.63	?UNDEF	?UNDEF	?UNDEF	18.10	0.00	098.09	099.16	22.20	0.00	?UNDEF	?UNDEF
23	1.40	0.00	104.65	?UNDEF	?UNDEF	?UNDEF	15.80	0.00	098.31	099.65	14.80	0.00	?UNDEF	?UNDEF
24	1.50	0.00	104.68	?UNDEF	?UNDEF	?UNDEF	13.70	0.00	098.39	099.70	14.60	0.00	?UNDEF	?UNDEF
	LOWER MONUMENTAL			ICE HARBOR			MCNARY			PASCO				
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB %SAT. TAILW.	GAS % SAT			
1	16.20	0.00	?UNDEF ?UNDEF	17.50	0.00	095.47 096.53	60.20	0.00	097.24 097.45	097.36	097.58			
2	13.60	0.00	?UNDEF ?UNDEF	11.50	0.00	095.34 096.61	58.30	0.00	097.26 097.43	097.36	097.48			
3	13.30	0.00	?UNDEF ?UNDEF	11.10	0.00	095.29 096.41	59.00	0.00	096.86 097.16	097.13	097.36			
4	13.30	0.00	?UNDEF ?UNDEF	12.60	0.00	095.25 096.65	78.10	0.00	096.83 096.85	097.07	097.32			
5	13.40	0.00	?UNDEF ?UNDEF	11.30	0.00	095.17 096.75	100.90	0.00	096.72 096.73	097.05	097.11			
6	15.10	0.00	?UNDEF ?UNDEF	11.40	0.00	095.19 096.74	119.20	0.00	096.83 096.57	096.87	096.95			
7	21.10	0.00	?UNDEF ?UNDEF	18.70	0.00	095.19 097.15	127.70	0.00	096.94 096.59	096.76	096.94			
8	21.30	0.00	?UNDEF ?UNDEF	20.80	0.00	095.21 098.09	122.60	0.00	097.09 096.61	096.66	096.83			
9	21.20	0.00	?UNDEF ?UNDEF	20.80	0.00	095.20 097.90	116.50	0.00	096.85 096.49	096.79	096.86			
10	22.50	0.00	?UNDEF ?UNDEF	21.10	0.00	095.25 097.78	116.70	0.00	097.02 096.51	096.86	097.04			
11	21.10	0.00	?UNDEF ?UNDEF	22.00	0.00	095.51 097.41	123.90	0.00	097.37 096.85	097.07	097.13			
12	20.60	0.00	?UNDEF ?UNDEF	20.70	0.00	095.64 097.62	125.10	0.00	097.56 096.94	097.11	097.38			
13	21.10	0.00	?UNDEF ?UNDEF	20.60	0.00	095.91 098.00	125.40	0.00	097.70 096.98	097.26	097.67			
14	20.70	0.00	?UNDEF ?UNDEF	22.10	0.00	096.04 098.53	125.40	0.00	097.90 097.42	097.43	097.83			
15	22.00	0.00	?UNDEF ?UNDEF	21.00	0.00	096.30 097.99	124.90	0.00	098.09 097.50	097.42	098.07			
16	19.90	0.00	?UNDEF ?UNDEF	20.70	0.00	096.35 097.95	107.70	0.00	098.04 097.55	097.46	098.16			
17	19.80	0.00	?UNDEF ?UNDEF	21.40	0.00	096.37 098.45	106.90	0.00	098.04 097.54	097.45	098.26			
18	19.90	0.00	?UNDEF ?UNDEF	20.80	0.00	096.34 097.89	107.10	0.00	097.91 097.70	097.47	098.26			
19	20.60	0.00	?UNDEF ?UNDEF	24.80	0.00	096.47 098.11	106.70	0.00	098.21 097.83	097.65	098.25			
20	20.80	0.00	?UNDEF ?UNDEF	25.40	0.00	096.50 098.47	105.30	0.00	098.22 098.02	097.69	098.29			
21	20.70	0.00	?UNDEF ?UNDEF	24.80	0.00	096.60 098.04	91.30	0.00	098.30 098.22	097.77	098.22			
22	20.50	0.00	?UNDEF ?UNDEF	24.70	0.00	096.61 097.77	80.10	0.00	098.31 098.22	097.73	098.26			
23	14.50	0.00	?UNDEF ?UNDEF	18.50	0.00	096.61 097.73	71.20	0.00	098.00 097.91	097.70	098.19			
24	15.80	0.00	?UNDEF ?UNDEF	17.90	0.00	096.51 097.68	69.10	0.00	097.90 097.83	097.85	098.19			

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	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.50	0.00	102.97	?UNDEF	?UNDEF	?UNDEF	13.00	0.00	096.39	097.59	13.30	0.00	?UNDEF	?UNDEF
2	1.40	0.00	102.81	?UNDEF	?UNDEF	?UNDEF	12.70	0.00	096.18	097.65	13.30	0.00	?UNDEF	?UNDEF
3	1.40	0.00	103.04	?UNDEF	?UNDEF	?UNDEF	12.80	0.00	096.14	097.63	13.30	0.00	?UNDEF	?UNDEF
4	1.40	0.00	103.12	?UNDEF	?UNDEF	?UNDEF	12.70	0.00	096.42	097.73	13.40	0.00	?UNDEF	?UNDEF
5	1.50	0.00	103.13	?UNDEF	?UNDEF	?UNDEF	12.90	0.00	096.47	097.57	13.60	0.00	?UNDEF	?UNDEF
6	1.40	0.00	103.04	?UNDEF	?UNDEF	?UNDEF	20.60	0.00	096.39	097.59	13.60	0.00	?UNDEF	?UNDEF
7	1.40	0.00	102.91	?UNDEF	?UNDEF	?UNDEF	20.80	0.00	096.28	097.63	21.10	0.00	?UNDEF	?UNDEF
8	1.40	0.00	103.17	?UNDEF	?UNDEF	?UNDEF	20.60	0.00	096.12	097.57	21.50	0.00	?UNDEF	?UNDEF
9	1.40	0.00	103.31	?UNDEF	?UNDEF	?UNDEF	20.50	0.00	096.38	097.56	21.00	0.00	?UNDEF	?UNDEF
10	1.50	0.00	103.76	?UNDEF	?UNDEF	?UNDEF	21.00	0.00	096.60	097.67	22.30	0.00	?UNDEF	?UNDEF
11	1.40	0.00	103.99	?UNDEF	?UNDEF	?UNDEF	21.20	0.00	096.72	097.77	22.00	0.00	?UNDEF	?UNDEF
12	1.40	0.00	104.07	?UNDEF	?UNDEF	?UNDEF	19.10	0.00	096.82	097.86	20.50	0.00	?UNDEF	?UNDEF
13	1.40	0.00	104.20	?UNDEF	?UNDEF	?UNDEF	18.50	0.00	096.99	098.06	20.60	0.00	?UNDEF	?UNDEF
14	1.40	0.00	104.16	?UNDEF	?UNDEF	?UNDEF	18.50	0.00	097.06	098.09	20.60	0.00	?UNDEF	?UNDEF
15	1.50	0.00	104.00	?UNDEF	?UNDEF	?UNDEF	18.50	0.00	096.93	098.14	21.00	0.00	?UNDEF	?UNDEF
16	1.40	0.00	103.75	?UNDEF	?UNDEF	?UNDEF	18.60	0.00	096.82	097.99	20.70	0.00	?UNDEF	?UNDEF
17	1.40	0.00	103.55	?UNDEF	?UNDEF	?UNDEF	21.10	0.00	097.07	098.14	23.60	0.00	?UNDEF	?UNDEF
18	1.40	0.00	103.65	?UNDEF	?UNDEF	?UNDEF	21.20	0.00	097.33	098.24	22.20	0.00	?UNDEF	?UNDEF
19	1.50	0.00	103.55	?UNDEF	?UNDEF	?UNDEF	21.60	0.00	097.48	098.24	22.20	0.00	?UNDEF	?UNDEF
20	1.40	0.00	103.68	?UNDEF	?UNDEF	?UNDEF	22.90	0.00	097.49	098.28	22.60	0.00	?UNDEF	?UNDEF
21	1.40	0.00	103.57	?UNDEF	?UNDEF	?UNDEF	21.20	0.00	097.53	098.56	22.20	0.00	?UNDEF	?UNDEF
22	1.40	0.00	103.41	?UNDEF	?UNDEF	?UNDEF	21.00	0.00	097.54	098.45	21.90	0.00	?UNDEF	?UNDEF
23	1.40	0.00	103.55	?UNDEF	?UNDEF	?UNDEF	16.00	0.00	096.93	098.29	14.60	0.00	?UNDEF	?UNDEF
24	1.50	0.00	103.57	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	096.78	098.22	14.10	0.00	?UNDEF	?UNDEF

	LOWER MONUMENTAL					ICE HARBOR					MCNARY					PASCO
HOUR	TOTAL DISCH	SPILL	GAS FB	%SAT. TAILW.	TOTAL DISCH	SPILL	GAS FB	%SAT. TAILW.	TOTAL DISCH	SPILL	GAS FB	%SAT. TAILW.	TOTAL DISCH	SPILL	GAS FB	%SAT. TAILW.
	KCFS	KCFS			KCFS	KCFS			KCFS	KCFS	OR FB	WA FB	KCFS	KCFS		% SAT
1	13.70	0.00	?UNDEF	?UNDEF	12.60	0.00	094.65	096.22	60.40	0.00	096.70	096.84	096.36			097.19
2	13.70	0.00	?UNDEF	?UNDEF	12.80	0.00	094.75	096.28	60.40	0.00	096.59	096.63	096.40			097.26
3	15.40	0.00	?UNDEF	?UNDEF	13.00	0.00	094.79	096.21	60.30	0.00	096.63	096.53	096.44			097.16
4	13.80	0.00	?UNDEF	?UNDEF	12.70	0.00	094.70	096.34	61.40	0.00	096.66	096.41	096.42			097.09
5	13.80	0.00	?UNDEF	?UNDEF	12.80	0.00	094.67	096.60	95.40	0.00	096.60	096.66	096.44			096.91
6	14.00	0.00	?UNDEF	?UNDEF	15.70	0.00	094.76	096.77	117.60	0.00	096.63	096.78	096.57			096.84
7	20.70	0.00	?UNDEF	?UNDEF	21.50	0.00	094.71	096.80	118.10	0.00	096.64	096.85	096.62			096.74
8	21.30	0.00	?UNDEF	?UNDEF	21.60	0.00	094.90	096.79	134.90	0.00	096.72	096.75	096.64			096.73
9	21.50	0.00	?UNDEF	?UNDEF	24.20	0.00	094.86	098.11	137.30	0.00	096.77	096.67	096.59			096.69
10	21.30	0.00	?UNDEF	?UNDEF	25.10	0.00	094.92	097.25	129.80	0.00	096.73	096.74	096.80			096.90
11	21.70	0.00	?UNDEF	?UNDEF	23.40	0.00	094.97	097.24	128.00	0.00	096.91	096.68	096.98			096.94
12	19.80	0.00	?UNDEF	?UNDEF	20.40	0.00	095.14	097.39	100.80	0.00	096.91	096.97	097.04			097.23
13	20.70	0.00	?UNDEF	?UNDEF	20.20	0.00	095.17	098.57	100.00	0.00	096.89	097.07	097.14			097.28
14	22.40	0.00	?UNDEF	?UNDEF	20.40	0.00	095.28	097.36	100.00	0.00	097.09	097.16	096.94			097.53
15	20.40	0.00	?UNDEF	?UNDEF	20.10	0.00	095.33	097.05	97.70	0.00	097.14	097.19	096.84			097.65
16	20.10	0.00	?UNDEF	?UNDEF	19.90	0.00	095.52	097.22	99.00	0.00	097.60	097.53	097.16			097.78
17	21.20	0.00	?UNDEF	?UNDEF	25.60	0.00	095.64	097.32	130.30	0.00	097.59	097.80	097.31			097.88
18	22.00	0.00	?UNDEF	?UNDEF	26.90	0.00	095.57	097.39	136.20	0.00	097.43	097.85	097.36			097.98
19	21.70	0.00	?UNDEF	?UNDEF	25.50	0.00	095.67	097.47	137.50	0.00	097.44	097.87	097.24			098.06
20	29.40	0.00	?UNDEF	?UNDEF	28.70	0.00	095.67	097.71	111.30	0.00	097.62	097.78	097.23			097.94
21	30.00	0.00	?UNDEF	?UNDEF	29.10	0.00	095.48	096.99	121.50	0.00	097.12	097.41	097.05			097.72
22	31.20	0.00	?UNDEF	?UNDEF	29.50	0.00	095.20	097.04	68.80	0.00	097.11	097.29	096.98			097.44
23	23.30	0.00	?UNDEF	?UNDEF	24.20	0.00	095.19	096.62	53.60	0.00	097.01	097.18	096.74			097.44
24	20.80	0.00	?UNDEF	?UNDEF	18.40	0.00	095.20	096.47	54.80	0.00	097.21	097.21	096.93			097.44

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	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.50	0.00	103.38	?UNDEF	?UNDEF	?UNDEF	13.30	0.00	094.69	097.04	13.70	0.00	?UNDEF	?UNDEF
2	1.40	0.00	103.24	?UNDEF	?UNDEF	?UNDEF	13.40	0.00	094.66	096.87	13.80	0.00	?UNDEF	?UNDEF
3	1.40	0.00	103.24	?UNDEF	?UNDEF	?UNDEF	13.50	0.00	094.67	097.06	13.80	0.00	?UNDEF	?UNDEF
4	1.40	0.00	103.18	?UNDEF	?UNDEF	?UNDEF	13.80	0.00	094.71	096.90	13.90	0.00	?UNDEF	?UNDEF
5	1.40	0.00	103.20	?UNDEF	?UNDEF	?UNDEF	13.50	0.00	094.81	096.90	14.00	0.00	?UNDEF	?UNDEF
6	1.40	0.00	103.33	?UNDEF	?UNDEF	?UNDEF	13.50	0.00	094.96	097.06	13.70	0.00	?UNDEF	?UNDEF
7	1.40	0.00	103.42	?UNDEF	?UNDEF	?UNDEF	13.40	0.00	094.78	097.02	13.70	0.00	?UNDEF	?UNDEF
8	1.40	0.00	103.66	?UNDEF	?UNDEF	?UNDEF	13.40	0.00	094.82	096.94	14.00	0.00	?UNDEF	?UNDEF
9	1.40	0.00	103.91	?UNDEF	?UNDEF	?UNDEF	15.40	0.00	094.83	097.46	14.40	0.00	?UNDEF	?UNDEF
10	1.40	0.00	103.87	?UNDEF	?UNDEF	?UNDEF	13.70	0.00	094.80	097.55	14.60	0.00	?UNDEF	?UNDEF
11	1.40	0.00	104.03	?UNDEF	?UNDEF	?UNDEF	13.70	0.00	094.86	097.50	14.40	0.00	?UNDEF	?UNDEF
12	1.40	0.00	104.09	?UNDEF	?UNDEF	?UNDEF	15.50	0.00	095.05	097.40	14.40	0.00	?UNDEF	?UNDEF
13	1.40	0.00	104.20	?UNDEF	?UNDEF	?UNDEF	13.80	0.00	094.95	098.37	14.40	0.00	?UNDEF	?UNDEF
14	1.40	0.00	104.36	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	094.84	097.75	14.40	0.00	?UNDEF	?UNDEF
15	1.50	0.00	104.25	?UNDEF	?UNDEF	?UNDEF	13.80	0.00	095.04	097.53	16.10	0.00	?UNDEF	?UNDEF
16	1.40	0.00	103.94	?UNDEF	?UNDEF	?UNDEF	13.90	0.00	095.21	097.60	14.40	0.00	?UNDEF	?UNDEF
17	1.40	0.00	103.71	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	095.72	097.54	15.90	0.00	?UNDEF	?UNDEF
18	1.40	0.00	103.63	?UNDEF	?UNDEF	?UNDEF	17.40	0.00	096.03	097.71	14.50	0.00	?UNDEF	?UNDEF
19	1.40	0.00	103.71	?UNDEF	?UNDEF	?UNDEF	17.90	0.00	095.80	097.52	18.10	0.00	?UNDEF	?UNDEF
20	1.50	0.00	103.51	?UNDEF	?UNDEF	?UNDEF	22.50	0.00	096.11	098.22	21.60	0.00	?UNDEF	?UNDEF
21	1.40	0.00	103.32	?UNDEF	?UNDEF	?UNDEF	20.80	0.00	096.41	097.90	21.30	0.00	?UNDEF	?UNDEF
22	1.40	0.00	103.27	?UNDEF	?UNDEF	?UNDEF	20.70	0.00	096.34	097.80	21.20	0.00	?UNDEF	?UNDEF
23	1.40	0.00	103.05	?UNDEF	?UNDEF	?UNDEF	14.20	0.00	096.48	097.66	21.00	0.00	?UNDEF	?UNDEF
24	1.40	0.00	103.19	?UNDEF	?UNDEF	?UNDEF	12.90	0.00	096.40	097.58	15.50	0.00	?UNDEF	?UNDEF
	LOWER MONUMENTAL			ICE HARBOR			MCNARY			PASCO				
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT		
1	13.50	0.00	?UNDEF ?UNDEF	13.20	0.00	094.27 095.95	59.80	0.00	096.50	096.80	096.27	096.87		
2	13.60	0.00	?UNDEF ?UNDEF	13.00	0.00	094.10 095.78	59.30	0.00	096.58	096.64	096.39	096.74		
3	13.70	0.00	?UNDEF ?UNDEF	13.10	0.00	094.09 095.77	59.40	0.00	096.62	096.63	096.39	096.57		
4	13.70	0.00	?UNDEF ?UNDEF	13.10	0.00	094.14 096.06	59.30	0.00	096.57	096.49	096.38	096.63		
5	13.80	0.00	?UNDEF ?UNDEF	13.10	0.00	094.22 096.15	60.90	0.00	096.54	096.47	096.26	096.47		
6	13.70	0.00	?UNDEF ?UNDEF	13.00	0.00	094.21 096.09	82.10	0.00	096.41	096.42	096.20	096.29		
7	13.90	0.00	?UNDEF ?UNDEF	14.70	0.00	094.19 096.09	92.80	0.00	096.35	096.54	096.16	096.14		
8	14.30	0.00	?UNDEF ?UNDEF	13.00	0.00	094.15 096.11	97.90	0.00	096.31	096.46	096.12	095.95		
9	14.30	0.00	?UNDEF ?UNDEF	13.00	0.00	094.14 096.01	97.70	0.00	096.07	096.37	096.03	095.95		
10	15.00	0.00	?UNDEF ?UNDEF	14.50	0.00	094.04 096.16	97.40	0.00	095.95	096.24	096.18	096.05		
11	14.80	0.00	?UNDEF ?UNDEF	13.00	0.00	094.07 097.01	97.40	0.00	096.25	096.20	096.20	096.09		
12	16.30	0.00	?UNDEF ?UNDEF	13.20	0.00	094.11 097.02	97.40	0.00	096.44	096.22	096.26	096.52		
13	14.80	0.00	?UNDEF ?UNDEF	13.00	0.00	094.17 096.82	97.20	0.00	096.69	096.47	096.38	096.82		
14	16.50	0.00	?UNDEF ?UNDEF	13.00	0.00	094.40 097.49	97.30	0.00	096.82	096.71	096.46	096.91		
15	14.80	0.00	?UNDEF ?UNDEF	13.10	0.00	094.45 097.42	97.20	0.00	096.85	096.95	096.43	097.14		
16	14.80	0.00	?UNDEF ?UNDEF	13.00	0.00	094.52 097.00	97.30	0.00	096.88	097.04	096.40	097.28		
17	14.80	0.00	?UNDEF ?UNDEF	13.30	0.00	094.50 096.84	98.10	0.00	096.77	097.05	096.43	097.43		
18	14.80	0.00	?UNDEF ?UNDEF	13.80	0.00	094.48 096.67	98.30	0.00	096.61	097.04	096.29	097.28		
19	18.00	0.00	?UNDEF ?UNDEF	18.10	0.00	094.58 096.64	84.40	0.00	096.66	097.09	096.38	097.37		
20	21.00	0.00	?UNDEF ?UNDEF	21.90	0.00	094.60 096.52	83.10	0.00	096.74	097.17	096.27	097.29		
21	21.30	0.00	?UNDEF ?UNDEF	22.00	0.00	094.68 096.74	70.90	0.00	096.61	097.05	096.30	097.29		
22	21.00	0.00	?UNDEF ?UNDEF	22.20	0.00	094.65 096.55	67.90	0.00	096.60	096.99	096.26	097.28		
23	20.60	0.00	?UNDEF ?UNDEF	21.40	0.00	094.59 096.23	62.80	0.00	096.52	096.83	096.20	097.23		
24	14.00	0.00	?UNDEF ?UNDEF	13.70	0.00	094.65 096.15	60.50	0.00	096.56	096.87	096.22	097.23		

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HOUR	DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	
1	1.40	0.00	104.02	?UNDEF	?UNDEF	?UNDEF	?UNDEF	12.80	0.00	095.72	097.56	13.40	0.00	?UNDEF	?UNDEF	
2	1.40	0.00	104.00	?UNDEF	?UNDEF	?UNDEF	?UNDEF	12.90	0.00	095.99	097.33	13.40	0.00	?UNDEF	?UNDEF	
3	1.40	0.00	104.03	?UNDEF	?UNDEF	?UNDEF	?UNDEF	12.70	0.00	096.07	097.24	13.20	0.00	?UNDEF	?UNDEF	
4	1.40	0.00	103.99	?UNDEF	?UNDEF	?UNDEF	?UNDEF	12.70	0.00	095.75	097.05	13.20	0.00	?UNDEF	?UNDEF	
5	1.40	0.00	103.86	?UNDEF	?UNDEF	?UNDEF	?UNDEF	12.80	0.00	095.56	097.01	15.20	0.00	?UNDEF	?UNDEF	
6	1.50	0.00	103.65	?UNDEF	?UNDEF	?UNDEF	?UNDEF	12.80	0.00	095.40	097.13	13.40	0.00	?UNDEF	?UNDEF	
7	1.40	0.00	103.42	?UNDEF	?UNDEF	?UNDEF	?UNDEF	12.90	0.00	095.31	096.91	13.50	0.00	?UNDEF	?UNDEF	
8	1.40	0.00	103.49	?UNDEF	?UNDEF	?UNDEF	?UNDEF	12.70	0.00	095.24	097.07	13.60	0.00	?UNDEF	?UNDEF	
9	1.40	0.00	103.73	?UNDEF	?UNDEF	?UNDEF	?UNDEF	12.70	0.00	095.17	096.90	13.60	0.00	?UNDEF	?UNDEF	
10	1.40	0.00	103.81	?UNDEF	?UNDEF	?UNDEF	?UNDEF	14.70	0.00	095.01	097.11	15.00	0.00	?UNDEF	?UNDEF	
11	1.40	0.00	104.17	?UNDEF	?UNDEF	?UNDEF	?UNDEF	15.10	0.00	095.00	096.97	15.00	0.00	?UNDEF	?UNDEF	
12	1.40	0.00	104.59	?UNDEF	?UNDEF	?UNDEF	?UNDEF	15.30	0.00	095.14	096.98	15.00	0.00	?UNDEF	?UNDEF	
13	1.40	0.00	104.76	?UNDEF	?UNDEF	?UNDEF	?UNDEF	15.10	0.00	094.97	096.94	16.40	0.00	?UNDEF	?UNDEF	
14	1.40	0.00	104.48	?UNDEF	?UNDEF	?UNDEF	?UNDEF	15.20	0.00	095.13	097.19	17.20	0.00	?UNDEF	?UNDEF	
15	1.40	0.00	104.48	?UNDEF	?UNDEF	?UNDEF	?UNDEF	16.10	0.00	094.95	097.09	15.90	0.00	?UNDEF	?UNDEF	
16	1.50	0.00	104.02	?UNDEF	?UNDEF	?UNDEF	?UNDEF	16.30	0.00	095.09	097.02	15.60	0.00	?UNDEF	?UNDEF	
17	1.40	0.00	103.55	?UNDEF	?UNDEF	?UNDEF	?UNDEF	18.30	0.00	095.15	097.01	16.40	0.00	?UNDEF	?UNDEF	
18	1.40	0.00	103.39	?UNDEF	?UNDEF	?UNDEF	?UNDEF	18.80	0.00	095.11	096.88	16.20	0.00	?UNDEF	?UNDEF	
19	1.40	0.00	103.55	?UNDEF	?UNDEF	?UNDEF	?UNDEF	19.20	0.00	094.95	096.92	17.40	0.00	?UNDEF	?UNDEF	
20	1.50	0.00	103.18	?UNDEF	?UNDEF	?UNDEF	?UNDEF	19.50	0.00	095.18	096.91	18.60	0.00	?UNDEF	?UNDEF	
21	1.40	0.00	103.27	?UNDEF	?UNDEF	?UNDEF	?UNDEF	21.00	0.00	095.16	096.98	21.80	0.00	?UNDEF	?UNDEF	
22	1.40	0.00	103.36	?UNDEF	?UNDEF	?UNDEF	?UNDEF	21.10	0.00	094.97	096.83	22.00	0.00	?UNDEF	?UNDEF	
23	1.40	0.00	103.17	?UNDEF	?UNDEF	?UNDEF	?UNDEF	17.00	0.00	094.95	096.94	16.30	0.00	?UNDEF	?UNDEF	
24	1.40	0.00	103.14	?UNDEF	?UNDEF	?UNDEF	?UNDEF	13.70	0.00	094.68	097.06	14.40	0.00	?UNDEF	?UNDEF	
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT		
1	13.80	0.00	?UNDEF	?UNDEF	18.20	0.00	094.84	096.27	78.90	0.00	095.83	096.40	096.30	097.30		
2	13.60	0.00	?UNDEF	?UNDEF	15.30	0.00	094.73	096.15	68.10	0.00	095.62	096.31	096.34	097.17		
3	13.90	0.00	?UNDEF	?UNDEF	12.70	0.00	094.88	097.47	68.70	0.00	095.74	096.25	096.33	097.15		
4	13.60	0.00	?UNDEF	?UNDEF	12.70	0.00	094.70	097.03	68.80	0.00	095.68	096.38	096.30	097.02		
5	13.80	0.00	?UNDEF	?UNDEF	12.80	0.00	094.69	096.51	80.50	0.00	095.81	096.40	096.41	097.02		
6	13.80	0.00	?UNDEF	?UNDEF	12.90	0.00	094.68	096.75	104.00	0.00	095.78	096.46	096.53	096.98		
7	13.80	0.00	?UNDEF	?UNDEF	13.00	0.00	094.73	097.33	143.60	0.00	095.71	096.52	096.87	096.74		
8	13.80	0.00	?UNDEF	?UNDEF	14.60	0.00	094.68	096.88	147.20	0.00	095.62	096.59	096.66	096.69		
9	15.30	0.00	?UNDEF	?UNDEF	12.80	0.00	094.58	096.67	144.70	0.00	095.57	096.66	096.70	096.74		
10	13.80	0.00	?UNDEF	?UNDEF	9.50	0.00	094.60	096.78	144.30	0.00	096.06	096.64	096.53	096.82		
11	14.00	0.00	?UNDEF	?UNDEF	9.30	0.00	094.56	096.86	144.30	0.00	095.93	096.75	096.53	096.96		
12	15.20	0.00	?UNDEF	?UNDEF	11.10	0.00	094.57	097.16	144.00	0.00	095.94	096.93	096.83	096.96		
13	13.60	0.00	?UNDEF	?UNDEF	20.40	0.00	094.61	097.94	143.90	0.00	096.10	097.09	096.85	097.29		
14	13.40	0.00	?UNDEF	?UNDEF	13.80	0.00	094.61	097.97	144.00	0.00	096.35	097.21	096.86	097.55		
15	13.40	0.00	?UNDEF	?UNDEF	12.90	0.00	094.58	097.77	132.90	0.00	097.75	097.21	096.86	097.75		
16	13.40	0.00	?UNDEF	?UNDEF	14.40	0.00	094.53	098.44	131.90	0.00	097.75	097.30	096.65	097.74		
17	13.60	0.00	?UNDEF	?UNDEF	12.90	0.00	094.52	098.14	128.60	0.00	097.73	097.25	096.61	097.82		
18	13.30	0.00	?UNDEF	?UNDEF	12.80	0.00	094.51	098.26	127.20	0.00	097.71	097.22	096.63	097.80		
19	13.30	0.00	?UNDEF	?UNDEF	12.80	0.00	094.45	098.34	115.80	0.00	097.23	097.05	096.58	097.63		
20	15.70	0.00	?UNDEF	?UNDEF	18.30	0.00	094.42	097.79	113.90	0.00	096.94	097.00	096.55	097.60		
21	21.50	0.00	?UNDEF	?UNDEF	22.00	0.00	094.33	096.96	90.60	0.00	096.66	096.99	096.37	097.40		
22	21.50	0.00	?UNDEF	?UNDEF	22.00	0.00	094.33	096.53	87.20	0.00	096.61	097.03	096.28	097.36		
23	15.90	0.00	?UNDEF	?UNDEF	18.00	0.00	094.30	096.24	69.90	0.00	096.62	097.07	096.33	097.21		
24	14.00	0.00	?UNDEF	?UNDEF	13.00	0.00	094.27	096.06	68.10	0.00	096.49	096.90	096.30	097.21		

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HOUR	DWRSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.40	0.00	104.17	?UNDEF	?UNDEF	?UNDEF	13.60	0.00	096.37	098.23	12.70	0.00	?UNDEF	?UNDEF
2	1.40	0.00	103.99	?UNDEF	?UNDEF	?UNDEF	13.30	0.00	096.51	097.81	12.60	0.00	?UNDEF	?UNDEF
3	1.40	0.00	103.98	?UNDEF	?UNDEF	?UNDEF	13.20	0.00	096.47	097.64	12.60	0.00	?UNDEF	?UNDEF
4	1.40	0.00	104.13	?UNDEF	?UNDEF	?UNDEF	13.20	0.00	096.20	097.64	12.90	0.00	?UNDEF	?UNDEF
5	1.50	0.00	104.09	?UNDEF	?UNDEF	?UNDEF	13.40	0.00	096.05	097.62	12.80	0.00	?UNDEF	?UNDEF
6	1.40	0.00	103.88	?UNDEF	?UNDEF	?UNDEF	13.20	0.00	095.88	097.42	12.70	0.00	?UNDEF	?UNDEF
7	1.40	0.00	103.68	?UNDEF	?UNDEF	?UNDEF	14.60	0.00	095.95	097.42	15.30	0.00	?UNDEF	?UNDEF
8	1.40	0.00	103.90	?UNDEF	?UNDEF	?UNDEF	13.90	0.00	096.07	097.54	15.10	0.00	?UNDEF	?UNDEF
9	1.40	0.00	104.48	?UNDEF	?UNDEF	?UNDEF	13.70	0.00	096.05	097.36	13.50	0.00	?UNDEF	?UNDEF
10	1.40	0.00	104.58	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	095.83	097.28	13.20	0.00	?UNDEF	?UNDEF
11	1.40	0.00	104.87	?UNDEF	?UNDEF	?UNDEF	13.80	0.00	095.92	097.37	13.20	0.00	?UNDEF	?UNDEF
12	1.40	0.00	104.81	?UNDEF	?UNDEF	?UNDEF	13.90	0.00	096.08	097.41	13.20	0.00	?UNDEF	?UNDEF
13	1.40	0.00	105.06	?UNDEF	?UNDEF	?UNDEF	13.90	0.00	096.26	097.25	13.20	0.00	?UNDEF	?UNDEF
14	1.50	0.00	104.95	?UNDEF	?UNDEF	?UNDEF	13.90	0.00	096.23	097.30	13.50	0.00	?UNDEF	?UNDEF
15	1.40	0.00	104.68	?UNDEF	?UNDEF	?UNDEF	14.10	0.00	096.10	097.14	13.20	0.00	?UNDEF	?UNDEF
16	1.40	0.00	104.56	?UNDEF	?UNDEF	?UNDEF	13.80	0.00	095.98	097.16	13.20	0.00	?UNDEF	?UNDEF
17	1.40	0.00	104.28	?UNDEF	?UNDEF	?UNDEF	14.50	0.00	095.83	097.25	13.60	0.00	?UNDEF	?UNDEF
18	1.40	0.00	103.96	?UNDEF	?UNDEF	?UNDEF	25.00	0.00	095.85	097.18	25.00	0.00	?UNDEF	?UNDEF
19	1.40	0.00	104.28	?UNDEF	?UNDEF	?UNDEF	26.80	0.00	096.17	097.33	27.50	0.00	?UNDEF	?UNDEF
20	1.40	0.00	104.03	?UNDEF	?UNDEF	?UNDEF	25.60	0.00	095.85	097.20	25.60	0.00	?UNDEF	?UNDEF
21	1.40	0.00	103.97	?UNDEF	?UNDEF	?UNDEF	25.10	0.00	096.05	097.21	25.50	0.00	?UNDEF	?UNDEF
22	1.40	0.00	103.75	?UNDEF	?UNDEF	?UNDEF	18.40	0.00	095.91	097.52	25.40	0.00	?UNDEF	?UNDEF
23	1.40	0.00	103.87	?UNDEF	?UNDEF	?UNDEF	14.30	0.00	095.94	097.38	20.10	0.00	?UNDEF	?UNDEF
24	1.40	0.00	104.07	?UNDEF	?UNDEF	?UNDEF	15.60	0.00	095.83	097.80	14.40	0.00	?UNDEF	?UNDEF
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO	
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	13.60	0.00	?UNDEF	?UNDEF	14.20	0.00	095.30	097.50	59.60	0.00	096.10	095.90	096.22	097.89
2	13.70	0.00	?UNDEF	?UNDEF	12.70	0.00	095.33	097.50	59.60	0.00	095.83	095.90	096.21	097.85
3	13.70	0.00	?UNDEF	?UNDEF	12.60	0.00	095.33	098.37	59.50	0.00	095.88	095.93	096.27	097.92
4	13.70	0.00	?UNDEF	?UNDEF	12.70	0.00	095.31	097.95	59.60	0.00	095.87	095.77	096.25	097.89
5	13.70	0.00	?UNDEF	?UNDEF	12.90	0.00	095.41	097.47	61.30	0.00	095.84	095.85	096.17	097.71
6	13.80	0.00	?UNDEF	?UNDEF	12.70	0.00	095.40	098.23	90.90	0.00	095.90	095.80	096.29	097.66
7	14.60	0.00	?UNDEF	?UNDEF	12.60	0.00	095.31	097.47	113.90	0.00	095.93	095.90	096.21	097.57
8	14.20	0.00	?UNDEF	?UNDEF	12.60	0.00	095.26	097.18	110.70	0.00	096.09	095.98	096.18	097.54
9	14.00	0.00	?UNDEF	?UNDEF	12.60	0.00	095.17	097.14	123.00	0.00	096.03	095.96	096.30	097.52
10	14.20	0.00	?UNDEF	?UNDEF	15.10	0.00	095.35	097.33	116.80	0.00	096.15	096.06	096.27	097.51
11	14.20	0.00	?UNDEF	?UNDEF	12.50	0.00	095.22	097.33	99.30	0.00	096.30	096.08	096.39	097.60
12	15.70	0.00	?UNDEF	?UNDEF	12.50	0.00	095.39	097.50	98.60	0.00	096.36	096.10	096.45	097.68
13	14.40	0.00	?UNDEF	?UNDEF	15.30	0.00	095.24	097.77	98.40	0.00	096.34	096.29	096.48	097.81
14	15.60	0.00	?UNDEF	?UNDEF	12.70	0.00	095.24	098.64	100.70	0.00	096.32	096.51	096.43	097.80
15	14.20	0.00	?UNDEF	?UNDEF	12.60	0.00	095.24	098.23	101.30	0.00	096.05	096.51	096.45	097.75
16	14.10	0.00	?UNDEF	?UNDEF	14.40	0.00	095.19	097.78	100.40	0.00	095.92	096.38	096.57	097.75
17	14.70	0.00	?UNDEF	?UNDEF	13.50	0.00	095.17	099.12	114.00	0.00	095.92	096.48	096.58	097.73
18	26.40	0.00	?UNDEF	?UNDEF	24.50	0.00	095.18	098.18	120.70	0.00	096.06	096.51	096.58	097.76
19	26.20	0.00	?UNDEF	?UNDEF	26.70	0.00	095.18	098.19	119.70	0.00	096.04	096.50	096.56	097.73
20	26.70	0.00	?UNDEF	?UNDEF	25.10	0.00	095.18	097.28	106.40	0.00	095.87	096.46	096.51	097.71
21	26.20	0.00	?UNDEF	?UNDEF	25.70	0.00	095.09	096.65	100.50	0.00	095.90	096.49	096.54	097.65
22	27.80	0.00	?UNDEF	?UNDEF	25.10	0.00	095.08	097.13	99.00	0.00	095.85	096.41	096.47	097.58
23	26.50	0.00	?UNDEF	?UNDEF	26.40	0.00	095.00	096.55	98.20	0.00	095.80	096.35	096.42	097.53
24	18.30	0.00	?UNDEF	?UNDEF	18.60	0.00	094.88	096.32	97.40	0.00	095.70	096.44	096.45	097.53

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	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.40	0.00	103.77	?UNDEF	?UNDEF	?UNDEF	13.50	0.00	096.89	097.16	12.70	0.00	?UNDEF	?UNDEF
2	1.40	0.00	103.63	?UNDEF	?UNDEF	?UNDEF	13.80	0.00	096.87	097.14	12.70	0.00	?UNDEF	?UNDEF
3	1.40	0.00	103.78	?UNDEF	?UNDEF	?UNDEF	13.60	0.00	096.82	097.31	14.40	0.00	?UNDEF	?UNDEF
4	1.40	0.00	103.82	?UNDEF	?UNDEF	?UNDEF	13.50	0.00	096.88	097.39	12.60	0.00	?UNDEF	?UNDEF
5	1.50	0.00	103.75	?UNDEF	?UNDEF	?UNDEF	13.50	0.00	096.90	097.50	12.70	0.00	?UNDEF	?UNDEF
6	1.40	0.00	103.88	?UNDEF	?UNDEF	?UNDEF	13.50	0.00	096.94	097.55	12.60	0.00	?UNDEF	?UNDEF
7	1.40	0.00	103.75	?UNDEF	?UNDEF	?UNDEF	13.50	0.00	096.94	097.60	12.70	0.00	?UNDEF	?UNDEF
8	1.40	0.00	103.88	?UNDEF	?UNDEF	?UNDEF	13.70	0.00	097.11	097.47	12.90	0.00	?UNDEF	?UNDEF
9	1.40	0.00	104.38	?UNDEF	?UNDEF	?UNDEF	13.40	0.00	097.10	097.64	12.60	0.00	?UNDEF	?UNDEF
10	1.50	0.00	104.68	?UNDEF	?UNDEF	?UNDEF	13.50	0.00	097.20	097.84	12.70	0.00	?UNDEF	?UNDEF
11	1.40	0.00	105.11	?UNDEF	?UNDEF	?UNDEF	13.60	0.00	097.24	097.88	12.80	0.00	?UNDEF	?UNDEF
12	1.40	0.00	105.06	?UNDEF	?UNDEF	?UNDEF	13.50	0.00	097.27	097.91	12.70	0.00	?UNDEF	?UNDEF
13	1.40	0.00	105.07	?UNDEF	?UNDEF	?UNDEF	13.70	0.00	097.44	097.94	12.90	0.00	?UNDEF	?UNDEF
14	1.50	0.00	105.28	?UNDEF	?UNDEF	?UNDEF	13.50	0.00	097.42	097.91	14.00	0.00	?UNDEF	?UNDEF
15	1.40	0.00	105.29	?UNDEF	?UNDEF	?UNDEF	13.50	0.00	097.40	097.80	14.40	0.00	?UNDEF	?UNDEF
16	1.40	0.00	106.75	?UNDEF	?UNDEF	?UNDEF	13.50	0.00	097.25	097.75	15.90	0.00	?UNDEF	?UNDEF
17	1.40	0.00	105.64	?UNDEF	?UNDEF	?UNDEF	13.60	0.00	096.86	097.90	14.30	0.00	?UNDEF	?UNDEF
18	1.40	0.00	104.67	?UNDEF	?UNDEF	?UNDEF	14.90	0.00	096.65	097.84	14.50	0.00	?UNDEF	?UNDEF
19	1.40	0.00	105.64	?UNDEF	?UNDEF	?UNDEF	16.40	0.00	096.73	097.79	14.30	0.00	?UNDEF	?UNDEF
20	1.40	0.00	104.16	?UNDEF	?UNDEF	?UNDEF	14.80	0.00	096.88	098.49	14.30	0.00	?UNDEF	?UNDEF
21	1.40	0.00	104.15	?UNDEF	?UNDEF	?UNDEF	16.50	0.00	096.99	098.17	14.20	0.00	?UNDEF	?UNDEF
22	1.40	0.00	104.12	?UNDEF	?UNDEF	?UNDEF	14.70	0.00	097.10	098.72	14.30	0.00	?UNDEF	?UNDEF
23	1.40	0.00	104.08	?UNDEF	?UNDEF	?UNDEF	13.90	0.00	096.97	098.02	13.10	0.00	?UNDEF	?UNDEF
24	1.50	0.00	104.13	?UNDEF	?UNDEF	?UNDEF	15.20	0.00	096.66	099.06	12.80	0.00	?UNDEF	?UNDEF
	LOWER MONUMENTAL			ICE HARBOR			MCNARY			PASCO				
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	13.90	0.00	?UNDEF	?UNDEF	12.50	0.00	095.37	096.52	55.00	0.00	096.39	096.97	097.03	098.24
2	13.60	0.00	?UNDEF	?UNDEF	12.80	0.00	095.38	096.93	60.00	0.00	096.42	097.02	096.95	098.12
3	15.30	0.00	?UNDEF	?UNDEF	12.60	0.00	095.47	097.42	57.10	0.00	096.47	097.04	097.24	098.05
4	13.60	0.00	?UNDEF	?UNDEF	12.60	0.00	095.53	097.46	59.90	0.00	096.64	097.10	097.15	098.08
5	13.70	0.00	?UNDEF	?UNDEF	12.60	0.00	095.51	097.59	62.00	0.00	096.67	097.13	097.20	097.95
6	13.50	0.00	?UNDEF	?UNDEF	12.70	0.00	095.58	097.65	88.40	0.00	096.55	096.99	097.10	097.85
7	13.40	0.00	?UNDEF	?UNDEF	12.60	0.00	095.61	097.68	88.00	0.00	096.43	096.86	096.93	097.88
8	13.60	0.00	?UNDEF	?UNDEF	14.30	0.00	095.55	097.75	96.80	0.00	096.44	096.86	096.80	097.76
9	13.40	0.00	?UNDEF	?UNDEF	12.70	0.00	095.74	097.88	96.70	0.00	096.48	096.90	096.85	097.80
10	13.60	0.00	?UNDEF	?UNDEF	12.70	0.00	095.74	097.88	96.90	0.00	096.36	096.82	096.84	097.76
11	13.40	0.00	?UNDEF	?UNDEF	12.60	0.00	095.77	098.10	98.00	0.00	096.52	096.95	096.88	097.97
12	13.40	0.00	?UNDEF	?UNDEF	12.70	0.00	095.77	102.52	99.00	0.00	096.49	096.78	096.85	098.08
13	16.50	0.00	?UNDEF	?UNDEF	13.00	0.00	095.87	104.69	89.10	0.00	096.50	096.93	097.51	098.22
14	13.30	0.00	?UNDEF	?UNDEF	14.40	0.00	095.72	101.07	88.90	0.00	096.36	096.93	097.39	098.22
15	13.50	0.00	?UNDEF	?UNDEF	12.90	0.00	095.76	100.56	89.60	0.00	097.20	096.98	097.01	098.38
16	13.90	0.00	?UNDEF	?UNDEF	14.40	0.00	095.93	099.79	89.50	0.00	097.56	096.95	096.89	098.40
17	13.70	0.00	?UNDEF	?UNDEF	12.90	0.00	095.87	099.85	90.80	0.00	097.42	096.80	096.74	098.48
18	13.60	0.00	?UNDEF	?UNDEF	13.10	0.00	095.84	101.28	115.90	0.00	097.21	096.70	096.63	098.42
19	13.60	0.00	?UNDEF	?UNDEF	12.80	0.00	095.81	102.98	89.30	0.00	096.63	096.65	096.57	098.36
20	13.60	0.00	?UNDEF	?UNDEF	12.80	0.00	095.70	101.39	75.10	0.00	096.23	096.29	096.49	098.31
21	13.50	0.00	?UNDEF	?UNDEF	12.70	0.00	095.61	099.28	60.30	0.00	096.65	096.06	096.36	098.19
22	13.50	0.00	?UNDEF	?UNDEF	14.10	0.00	095.51	098.25	59.10	0.00	096.88	095.98	096.31	098.10
23	13.80	0.00	?UNDEF	?UNDEF	12.80	0.00	095.49	097.81	59.30	0.00	096.56	095.95	096.29	098.08
24	13.60	0.00	?UNDEF	?UNDEF	12.60	0.00	095.30	097.66	59.50	0.00	096.28	095.83	096.25	098.08

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	DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	
1	1.40	0.00	103.85	?UNDEF	?UNDEF	?UNDEF	17.90	0.00	097.11	098.14	14.70	0.00	?UNDEF	?UNDEF	
2	1.40	0.00	103.81	?UNDEF	?UNDEF	?UNDEF	13.90	0.00	097.24	099.00	14.30	0.00	?UNDEF	?UNDEF	
3	1.40	0.00	103.82	?UNDEF	?UNDEF	?UNDEF	13.80	0.00	097.08	098.01	14.10	0.00	?UNDEF	?UNDEF	
4	1.40	0.00	103.81	?UNDEF	?UNDEF	?UNDEF	13.40	0.00	097.07	097.87	13.30	0.00	?UNDEF	?UNDEF	
5	1.50	0.00	103.65	?UNDEF	?UNDEF	?UNDEF	14.30	0.00	097.02	097.71	14.50	0.00	?UNDEF	?UNDEF	
6	1.40	0.00	103.63	?UNDEF	?UNDEF	?UNDEF	15.50	0.00	097.00	097.67	17.30	0.00	?UNDEF	?UNDEF	
7	1.40	0.00	103.55	?UNDEF	?UNDEF	?UNDEF	16.00	0.00	096.95	097.62	16.10	0.00	?UNDEF	?UNDEF	
8	1.40	0.00	103.82	?UNDEF	?UNDEF	?UNDEF	13.90	0.00	096.78	097.57	15.90	0.00	?UNDEF	?UNDEF	
9	1.40	0.00	104.02	?UNDEF	?UNDEF	?UNDEF	13.70	0.00	096.89	097.42	14.40	0.00	?UNDEF	?UNDEF	
10	1.50	0.00	104.10	?UNDEF	?UNDEF	?UNDEF	13.70	0.00	096.69	097.37	14.50	0.00	?UNDEF	?UNDEF	
11	1.40	0.00	104.25	?UNDEF	?UNDEF	?UNDEF	13.80	0.00	096.73	097.35	14.50	0.00	?UNDEF	?UNDEF	
12	1.40	0.00	104.42	?UNDEF	?UNDEF	?UNDEF	13.90	0.00	096.74	097.38	14.50	0.00	?UNDEF	?UNDEF	
13	1.40	0.00	104.85	?UNDEF	?UNDEF	?UNDEF	13.40	0.00	096.74	097.52	14.20	0.00	?UNDEF	?UNDEF	
14	1.40	0.00	104.83	?UNDEF	?UNDEF	?UNDEF	13.50	0.00	096.74	097.55	14.50	0.00	?UNDEF	?UNDEF	
15	1.50	0.00	104.71	?UNDEF	?UNDEF	?UNDEF	13.50	0.00	096.74	097.42	14.50	0.00	?UNDEF	?UNDEF	
16	1.40	0.00	104.44	?UNDEF	?UNDEF	?UNDEF	13.80	0.00	096.67	097.35	14.50	0.00	?UNDEF	?UNDEF	
17	1.50	0.00	104.16	?UNDEF	?UNDEF	?UNDEF	13.50	0.00	096.69	097.22	20.30	0.00	?UNDEF	?UNDEF	
18	1.40	0.00	103.97	?UNDEF	?UNDEF	?UNDEF	13.50	0.00	096.65	097.32	20.20	0.00	?UNDEF	?UNDEF	
19	1.40	0.00	104.16	?UNDEF	?UNDEF	?UNDEF	13.50	0.00	096.76	097.26	20.10	0.00	?UNDEF	?UNDEF	
20	1.50	0.00	105.23	?UNDEF	?UNDEF	?UNDEF	13.60	0.00	096.74	097.12	19.90	0.00	?UNDEF	?UNDEF	
21	1.40	0.00	104.17	?UNDEF	?UNDEF	?UNDEF	13.80	0.00	096.72	097.17	13.10	0.00	?UNDEF	?UNDEF	
22	1.40	0.00	103.88	?UNDEF	?UNDEF	?UNDEF	13.40	0.00	096.64	097.18	14.30	0.00	?UNDEF	?UNDEF	
23	1.40	0.00	103.90	?UNDEF	?UNDEF	?UNDEF	13.50	0.00	096.81	097.17	12.70	0.00	?UNDEF	?UNDEF	
24	1.50	0.00	103.97	?UNDEF	?UNDEF	?UNDEF	13.50	0.00	096.86	097.22	12.60	0.00	?UNDEF	?UNDEF	
	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT	
1	13.60	0.00	?UNDEF	?UNDEF	12.40	0.00	095.05	096.75	67.70	0.00	096.77	096.91	096.57	098.18	
2	13.60	0.00	?UNDEF	?UNDEF	12.50	0.00	095.05	096.86	65.30	0.00	096.88	096.93	096.71	098.18	
3	13.60	0.00	?UNDEF	?UNDEF	14.20	0.00	095.04	096.90	65.00	0.00	096.88	097.22	096.74	098.17	
4	13.60	0.00	?UNDEF	?UNDEF	12.60	0.00	095.04	097.24	69.80	0.00	096.72	097.14	096.57	098.20	
5	15.40	0.00	?UNDEF	?UNDEF	12.70	0.00	095.03	097.34	84.20	0.00	096.58	097.14	096.69	098.05	
6	14.40	0.00	?UNDEF	?UNDEF	12.70	0.00	094.98	097.37	112.40	0.00	096.57	097.15	096.84	097.98	
7	14.40	0.00	?UNDEF	?UNDEF	13.20	0.00	094.94	097.41	117.70	0.00	096.46	097.09	096.57	097.93	
8	15.00	0.00	?UNDEF	?UNDEF	18.10	0.00	094.86	097.90	104.30	0.00	096.43	097.01	096.54	097.88	
9	16.40	0.00	?UNDEF	?UNDEF	18.40	0.00	094.85	097.21	103.30	0.00	096.33	097.08	096.71	098.01	
10	18.30	0.00	?UNDEF	?UNDEF	19.60	0.00	094.79	097.25	103.70	0.00	096.25	097.00	097.06	098.09	
11	16.50	0.00	?UNDEF	?UNDEF	18.10	0.00	094.79	096.99	103.80	0.00	096.28	097.16	096.93	098.08	
12	17.70	0.00	?UNDEF	?UNDEF	18.00	0.00	094.80	096.90	90.00	0.00	096.44	097.03	097.36	098.20	
13	16.20	0.00	?UNDEF	?UNDEF	19.50	0.00	094.92	097.85	75.50	0.00	096.47	097.09	097.66	098.31	
14	16.30	0.00	?UNDEF	?UNDEF	18.30	0.00	094.95	100.36	74.50	0.00	096.45	096.92	098.31	098.32	
15	16.50	0.00	?UNDEF	?UNDEF	18.00	0.00	094.93	102.10	73.50	0.00	096.42	096.63	098.63	098.33	
16	16.40	0.00	?UNDEF	?UNDEF	19.70	0.00	094.87	099.63	74.80	0.00	096.40	096.47	098.11	098.28	
17	24.00	0.00	?UNDEF	?UNDEF	25.00	0.00	094.86	100.52	89.50	0.00	096.40	096.46	097.59	098.24	
18	29.00	0.00	?UNDEF	?UNDEF	34.10	0.00	094.96	103.75	112.10	0.00	096.40	096.43	097.93	098.24	
19	28.20	0.00	?UNDEF	?UNDEF	33.30	0.00	094.98	098.77	111.40	0.00	096.48	096.43	097.17	098.27	
20	28.40	0.00	?UNDEF	?UNDEF	33.80	0.00	095.06	097.00	112.00	0.00	096.64	096.70	097.01	098.23	
21	28.00	0.00	?UNDEF	?UNDEF	28.80	0.00	095.14	096.93	110.30	0.00	096.53	096.86	097.01	098.27	
22	14.10	0.00	?UNDEF	?UNDEF	13.20	0.00	095.14	096.53	78.20	0.00	096.62	096.83	096.78	098.23	
23	13.40	0.00	?UNDEF	?UNDEF	12.50	0.00	095.17	096.58	65.10	0.00	096.59	096.95	096.85	098.30	
24	13.70	0.00	?UNDEF	?UNDEF	12.50	0.00	095.38	096.53	54.70	0.00	096.51	096.97	097.03	098.30	

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	DWORSHAK			:	STREAMFLOW			:	LOWER GRANITE			:	LITTLE GOOSE				
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	:	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.40	0.00	104.17	:	?UNDEF	?UNDEF	?UNDEF	:	13.10	0.00	096.91	098.15	:	14.10	0.00	?UNDEF	?UNDEF
2	1.40	0.00	104.10	:	?UNDEF	?UNDEF	?UNDEF	:	14.80	0.00	096.95	097.85	:	15.30	0.00	?UNDEF	?UNDEF
3	1.40	0.00	103.91	:	?UNDEF	?UNDEF	?UNDEF	:	13.00	0.00	096.93	097.69	:	15.20	0.00	?UNDEF	?UNDEF
4	1.40	0.00	103.93	:	?UNDEF	?UNDEF	?UNDEF	:	13.30	0.00	096.74	097.69	:	15.20	0.00	?UNDEF	?UNDEF
5	1.50	0.00	103.77	:	?UNDEF	?UNDEF	?UNDEF	:	15.00	0.00	096.71	097.60	:	15.30	0.00	?UNDEF	?UNDEF
6	1.40	0.00	103.72	:	?UNDEF	?UNDEF	?UNDEF	:	18.30	0.00	096.63	097.44	:	16.00	0.00	?UNDEF	?UNDEF
7	1.40	0.00	103.58	:	?UNDEF	?UNDEF	?UNDEF	:	18.20	0.00	096.76	098.07	:	15.90	0.00	?UNDEF	?UNDEF
8	1.40	0.00	103.52	:	?UNDEF	?UNDEF	?UNDEF	:	17.30	0.00	096.58	097.90	:	20.30	0.00	?UNDEF	?UNDEF
9	1.50	0.00	103.74	:	?UNDEF	?UNDEF	?UNDEF	:	17.80	0.00	096.50	097.71	:	19.10	0.00	?UNDEF	?UNDEF
10	1.40	0.00	103.92	:	?UNDEF	?UNDEF	?UNDEF	:	17.50	0.00	096.68	097.56	:	19.10	0.00	?UNDEF	?UNDEF
11	1.40	0.00	104.19	:	?UNDEF	?UNDEF	?UNDEF	:	17.60	0.00	096.80	097.69	:	19.50	0.00	?UNDEF	?UNDEF
12	1.40	0.00	104.53	:	?UNDEF	?UNDEF	?UNDEF	:	19.00	0.00	096.85	097.58	:	19.10	0.00	?UNDEF	?UNDEF
13	1.40	0.00	104.68	:	?UNDEF	?UNDEF	?UNDEF	:	19.10	0.00	096.80	097.60	:	19.10	0.00	?UNDEF	?UNDEF
14	1.50	0.00	104.70	:	?UNDEF	?UNDEF	?UNDEF	:	19.20	0.00	096.81	097.63	:	19.10	0.00	?UNDEF	?UNDEF
15	1.40	0.00	104.75	:	?UNDEF	?UNDEF	?UNDEF	:	21.20	0.00	096.90	097.97	:	19.10	0.00	?UNDEF	?UNDEF
16	1.40	0.00	104.50	:	?UNDEF	?UNDEF	?UNDEF	:	20.80	0.00	096.89	098.61	:	19.40	0.00	?UNDEF	?UNDEF
17	1.40	0.00	104.24	:	?UNDEF	?UNDEF	?UNDEF	:	24.40	0.00	096.96	097.86	:	19.10	0.00	?UNDEF	?UNDEF
18	1.40	0.00	104.08	:	?UNDEF	?UNDEF	?UNDEF	:	19.50	0.00	097.09	098.18	:	20.60	0.00	?UNDEF	?UNDEF
19	1.50	0.00	104.24	:	?UNDEF	?UNDEF	?UNDEF	:	19.60	0.00	097.07	097.72	:	21.50	0.00	?UNDEF	?UNDEF
20	1.40	0.00	104.03	:	?UNDEF	?UNDEF	?UNDEF	:	17.40	0.00	097.01	097.67	:	20.00	0.00	?UNDEF	?UNDEF
21	1.40	0.00	103.72	:	?UNDEF	?UNDEF	?UNDEF	:	16.70	0.00	097.04	097.67	:	21.80	0.00	?UNDEF	?UNDEF
22	1.40	0.00	103.69	:	?UNDEF	?UNDEF	?UNDEF	:	14.50	0.00	097.00	097.63	:	18.00	0.00	?UNDEF	?UNDEF
23	1.40	0.00	103.83	:	?UNDEF	?UNDEF	?UNDEF	:	13.10	0.00	096.99	097.62	:	16.10	0.00	?UNDEF	?UNDEF
24	1.40	0.00	103.87	:	?UNDEF	?UNDEF	?UNDEF	:	12.90	0.00	096.95	097.62	:	13.20	0.00	?UNDEF	?UNDEF
:	LOWER MONUMENTAL			:	ICE HARBOR			:	MCNARY			:	PASCO				
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	:	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	:	GAS % SAT
1	15.20	0.00	?UNDEF	?UNDEF	:	12.20	0.00	095.02	097.21	:	63.70	0.00	096.66	096.45	096.37	:	098.01
2	13.60	0.00	?UNDEF	?UNDEF	:	12.30	0.00	094.94	097.16	:	61.00	0.00	096.71	096.62	096.27	:	097.81
3	13.70	0.00	?UNDEF	?UNDEF	:	12.20	0.00	094.92	097.18	:	68.40	0.00	096.71	096.45	096.36	:	097.80
4	13.90	0.00	?UNDEF	?UNDEF	:	12.20	0.00	094.93	097.27	:	59.90	0.00	096.67	096.59	096.38	:	097.64
5	15.40	0.00	?UNDEF	?UNDEF	:	12.70	0.00	094.87	097.94	:	70.20	0.00	096.51	096.54	096.29	:	097.46
6	14.10	0.00	?UNDEF	?UNDEF	:	12.30	0.00	094.83	097.18	:	84.90	0.00	096.47	096.36	096.29	:	097.45
7	14.10	0.00	?UNDEF	?UNDEF	:	12.50	0.00	094.83	097.07	:	91.60	0.00	096.31	096.18	096.34	:	097.41
8	18.00	0.00	?UNDEF	?UNDEF	:	18.00	0.00	094.87	097.03	:	147.30	0.00	096.19	096.28	096.29	:	097.36
9	19.90	0.00	?UNDEF	?UNDEF	:	18.00	0.00	094.87	097.59	:	148.90	0.00	096.18	096.15	096.34	:	097.33
10	18.60	0.00	?UNDEF	?UNDEF	:	18.00	0.00	094.85	097.58	:	148.00	0.00	096.29	096.23	096.28	:	097.43
11	18.30	0.00	?UNDEF	?UNDEF	:	18.40	0.00	094.84	097.54	:	148.30	0.00	096.61	096.35	096.27	:	097.73
12	18.40	0.00	?UNDEF	?UNDEF	:	18.10	0.00	094.89	097.61	:	148.30	0.00	097.10	096.50	096.51	:	097.87
13	18.40	0.00	?UNDEF	?UNDEF	:	19.60	0.00	094.96	097.63	:	141.90	0.00	096.96	096.50	096.55	:	098.20
14	18.40	0.00	?UNDEF	?UNDEF	:	19.60	0.00	095.03	097.74	:	134.70	0.00	097.37	096.86	096.55	:	098.28
15	18.50	0.00	?UNDEF	?UNDEF	:	18.10	0.00	095.05	097.55	:	101.50	0.00	097.35	096.85	096.50	:	098.46
16	18.40	0.00	?UNDEF	?UNDEF	:	18.40	0.00	095.05	097.38	:	81.60	0.00	097.09	096.75	096.55	:	098.36
17	18.50	0.00	?UNDEF	?UNDEF	:	18.20	0.00	094.99	098.01	:	76.20	0.00	096.77	096.80	096.51	:	098.38
18	21.60	0.00	?UNDEF	?UNDEF	:	23.60	0.00	095.00	097.06	:	67.40	0.00	096.69	096.46	096.55	:	098.41
19	21.70	0.00	?UNDEF	?UNDEF	:	24.00	0.00	095.01	097.14	:	67.50	0.00	096.78	096.66	096.62	:	098.46
20	21.30	0.00	?UNDEF	?UNDEF	:	24.00	0.00	095.08	096.88	:	67.10	0.00	096.89	096.82	096.59	:	098.33
21	21.20	0.00	?UNDEF	?UNDEF	:	24.60	0.00	095.03	096.74	:	63.30	0.00	096.77	097.07	096.60	:	098.34
22	19.00	0.00	?UNDEF	?UNDEF	:	21.70	0.00	095.04	096.75	:	60.40	0.00	096.62	096.95	096.60	:	098.34
23	16.50	0.00	?UNDEF	?UNDEF	:	18.40	0.00	095.01	096.60	:	60.60	0.00	096.62	096.75	096.57	:	098.20
24	15.50	0.00	?UNDEF	?UNDEF	:	12.90	0.00	095.03	096.58	:	60.30	0.00	096.84	096.85	096.52	:	098.20

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HOUR	DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
	TOTAL	SPILL	GAS	%SAT	ANATONE	PECK	LEWISTON	TOTAL	SPILL	GAS	%SAT	TOTAL	SPILL	GAS	%SAT
	DISCH	KCFS	FB	TAILW.	DISCH	GAS	%SAT	DISCH	KCFS	FB	TAILW.	DISCH	KCFS	FB	TAILW.
1	1.40	0.00	103.36	?UNDEF	?UNDEF	?UNDEF	12.80	0.00	096.07	096.98	12.60	0.00	?UNDEF	?UNDEF	
2	1.40	0.00	103.51	?UNDEF	?UNDEF	?UNDEF	12.60	0.00	095.89	096.98	12.50	0.00	?UNDEF	?UNDEF	
3	1.40	0.00	103.52	?UNDEF	?UNDEF	?UNDEF	12.90	0.00	095.84	096.99	12.80	0.00	?UNDEF	?UNDEF	
4	1.50	0.00	103.43	?UNDEF	?UNDEF	?UNDEF	17.00	0.00	095.98	097.04	17.30	0.00	?UNDEF	?UNDEF	
5	1.50	0.00	103.05	?UNDEF	?UNDEF	?UNDEF	16.70	0.00	096.17	096.96	16.60	0.00	?UNDEF	?UNDEF	
6	1.40	0.00	103.19	?UNDEF	?UNDEF	?UNDEF	16.60	0.00	096.32	097.00	16.90	0.00	?UNDEF	?UNDEF	
7	1.40	0.00	103.20	?UNDEF	?UNDEF	?UNDEF	16.80	0.00	096.50	097.03	17.20	0.00	?UNDEF	?UNDEF	
8	1.40	0.00	103.31	?UNDEF	?UNDEF	?UNDEF	15.70	0.00	096.68	097.04	17.50	0.00	?UNDEF	?UNDEF	
9	1.50	0.00	103.50	?UNDEF	?UNDEF	?UNDEF	15.70	0.00	096.70	097.23	17.40	0.00	?UNDEF	?UNDEF	
10	1.50	0.00	103.88	?UNDEF	?UNDEF	?UNDEF	15.60	0.00	096.73	097.40	17.60	0.00	?UNDEF	?UNDEF	
11	1.40	0.00	104.25	?UNDEF	?UNDEF	?UNDEF	15.70	0.00	096.80	097.47	17.40	0.00	?UNDEF	?UNDEF	
12	1.40	0.00	104.52	?UNDEF	?UNDEF	?UNDEF	16.00	0.00	097.09	097.71	17.30	0.00	?UNDEF	?UNDEF	
13	1.40	0.00	104.94	?UNDEF	?UNDEF	?UNDEF	15.70	0.00	097.14	097.82	17.30	0.00	?UNDEF	?UNDEF	
14	1.40	0.00	105.11	?UNDEF	?UNDEF	?UNDEF	15.70	0.00	097.14	097.80	15.80	0.00	?UNDEF	?UNDEF	
15	1.50	0.00	105.23	?UNDEF	?UNDEF	?UNDEF	15.70	0.00	097.30	097.82	16.00	0.00	?UNDEF	?UNDEF	
16	1.40	0.00	105.03	?UNDEF	?UNDEF	?UNDEF	15.70	0.00	097.31	097.87	15.90	0.00	?UNDEF	?UNDEF	
17	1.40	0.00	104.53	?UNDEF	?UNDEF	?UNDEF	16.00	0.00	097.23	098.00	15.90	0.00	?UNDEF	?UNDEF	
18	1.40	0.00	104.26	?UNDEF	?UNDEF	?UNDEF	14.50	0.00	097.08	097.87	14.40	0.00	?UNDEF	?UNDEF	
19	1.50	0.00	104.53	?UNDEF	?UNDEF	?UNDEF	16.40	0.00	097.11	097.90	15.60	0.00	?UNDEF	?UNDEF	
20	1.40	0.00	104.06	?UNDEF	?UNDEF	?UNDEF	16.60	0.00	097.22	097.91	16.10	0.00	?UNDEF	?UNDEF	
21	1.40	0.00	103.93	?UNDEF	?UNDEF	?UNDEF	16.70	0.00	097.22	097.90	17.30	0.00	?UNDEF	?UNDEF	
22	1.40	0.00	104.05	?UNDEF	?UNDEF	?UNDEF	17.10	0.00	097.37	097.93	15.70	0.00	?UNDEF	?UNDEF	
23	1.40	0.00	104.02	?UNDEF	?UNDEF	?UNDEF	16.90	0.00	097.37	097.87	13.80	0.00	?UNDEF	?UNDEF	
24	1.50	0.00	104.18	?UNDEF	?UNDEF	?UNDEF	15.00	0.00	097.18	098.24	13.80	0.00	?UNDEF	?UNDEF	
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
	TOTAL	SPILL	GAS	%SAT	TOTAL	SPILL	GAS	%SAT	TOTAL	SPILL	GAS	%SAT	GAS	%SAT	
	DISCH	KCFS	FB	TAILW.	DISCH	KCFS	FB	TAILW.	DISCH	KCFS	OR	WA	TAILW.	%SAT	
1	13.80	0.00	?UNDEF	?UNDEF	11.10	0.00	094.53	096.33	60.60	0.00	096.17	096.19	096.53	096.92	
2	13.70	0.00	?UNDEF	?UNDEF	9.60	0.00	094.39	096.33	59.70	0.00	096.17	096.21	096.53	096.93	
3	13.70	0.00	?UNDEF	?UNDEF	9.40	0.00	094.45	096.39	63.40	0.00	096.24	096.26	097.11	096.96	
4	15.70	0.00	?UNDEF	?UNDEF	11.30	0.00	094.45	096.37	66.30	0.00	096.23	096.18	097.22	096.92	
5	13.90	0.00	?UNDEF	?UNDEF	11.90	0.00	094.39	096.56	64.80	0.00	096.31	096.19	097.01	097.01	
6	13.70	0.00	?UNDEF	?UNDEF	14.40	0.00	094.41	096.75	80.50	0.00	096.20	096.38	096.57	096.92	
7	14.00	0.00	?UNDEF	?UNDEF	13.60	0.00	094.54	096.89	104.20	0.00	096.28	096.47	096.49	096.92	
8	21.20	0.00	?UNDEF	?UNDEF	20.80	0.00	094.55	096.92	105.60	0.00	096.30	096.47	096.60	096.99	
9	21.60	0.00	?UNDEF	?UNDEF	20.50	0.00	094.60	097.36	105.70	0.00	096.34	096.55	096.40	097.01	
10	21.80	0.00	?UNDEF	?UNDEF	20.50	0.00	094.64	097.54	105.80	0.00	096.35	096.55	096.41	097.02	
11	21.50	0.00	?UNDEF	?UNDEF	20.50	0.00	094.68	097.33	105.90	0.00	096.46	096.65	096.43	097.11	
12	21.40	0.00	?UNDEF	?UNDEF	23.40	0.00	094.77	097.43	108.40	0.00	096.53	096.83	096.34	097.47	
13	18.90	0.00	?UNDEF	?UNDEF	22.40	0.00	094.84	097.59	108.20	0.00	096.58	096.88	096.37	097.79	
14	17.10	0.00	?UNDEF	?UNDEF	20.60	0.00	094.87	098.27	107.90	0.00	096.81	096.83	096.48	098.12	
15	16.80	0.00	?UNDEF	?UNDEF	20.60	0.00	095.09	098.15	108.60	0.00	096.86	096.89	096.56	098.17	
16	16.90	0.00	?UNDEF	?UNDEF	20.50	0.00	095.02	098.17	100.60	0.00	097.06	096.80	096.61	098.42	
17	16.70	0.00	?UNDEF	?UNDEF	21.30	0.00	095.03	097.25	102.10	0.00	096.96	096.68	096.48	098.40	
18	15.90	0.00	?UNDEF	?UNDEF	13.80	0.00	095.00	097.12	100.30	0.00	096.80	096.70	096.51	098.42	
19	14.40	0.00	?UNDEF	?UNDEF	14.20	0.00	095.07	096.93	98.70	0.00	097.01	096.75	096.59	098.50	
20	13.60	0.00	?UNDEF	?UNDEF	12.60	0.00	095.08	097.88	98.90	0.00	096.93	096.80	096.59	098.46	
21	13.60	0.00	?UNDEF	?UNDEF	12.50	0.00	095.10	097.87	98.80	0.00	096.73	096.63	096.58	098.29	
22	15.30	0.00	?UNDEF	?UNDEF	12.40	0.00	095.10	097.61	89.40	0.00	096.58	096.64	096.56	098.21	
23	15.10	0.00	?UNDEF	?UNDEF	12.60	0.00	095.06	098.06	88.00	0.00	096.64	096.30	096.47	098.15	
24	13.70	0.00	?UNDEF	?UNDEF	13.70	0.00	095.00	097.37	66.20	0.00	096.73	096.40	096.31	098.15	

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	DWRSHAK			:	STREAMFLOW			:	LOWER GRANITE			:	LITTLE GOOSE				
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	:	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.40	0.00	103.15	:	?UNDEF	?UNDEF	?UNDEF	:	13.00	0.00	095.30	096.48	:	13.10	0.00	?UNDEF	?UNDEF
2	1.40	0.00	103.27	:	?UNDEF	?UNDEF	?UNDEF	:	13.10	0.00	095.30	096.48	:	13.20	0.00	?UNDEF	?UNDEF
3	1.40	0.00	103.17	:	?UNDEF	?UNDEF	?UNDEF	:	13.00	0.00	095.21	096.51	:	13.40	0.00	?UNDEF	?UNDEF
4	1.40	0.00	103.30	:	?UNDEF	?UNDEF	?UNDEF	:	12.90	0.00	095.06	096.35	:	13.30	0.00	?UNDEF	?UNDEF
5	1.50	0.00	103.15	:	?UNDEF	?UNDEF	?UNDEF	:	13.00	0.00	095.07	096.52	:	13.30	0.00	?UNDEF	?UNDEF
6	1.40	0.00	103.14	:	?UNDEF	?UNDEF	?UNDEF	:	17.00	0.00	095.23	096.44	:	13.30	0.00	?UNDEF	?UNDEF
7	1.40	0.00	103.12	:	?UNDEF	?UNDEF	?UNDEF	:	18.30	0.00	095.85	096.46	:	13.30	0.00	?UNDEF	?UNDEF
8	1.40	0.00	103.26	:	?UNDEF	?UNDEF	?UNDEF	:	18.60	0.00	096.13	096.64	:	18.60	0.00	?UNDEF	?UNDEF
9	1.40	0.00	103.42	:	?UNDEF	?UNDEF	?UNDEF	:	18.50	0.00	096.19	096.80	:	18.30	0.00	?UNDEF	?UNDEF
10	1.50	0.00	103.38	:	?UNDEF	?UNDEF	?UNDEF	:	16.00	0.00	096.22	096.87	:	19.80	0.00	?UNDEF	?UNDEF
11	1.40	0.00	103.76	:	?UNDEF	?UNDEF	?UNDEF	:	16.10	0.00	096.42	096.89	:	18.30	0.00	?UNDEF	?UNDEF
12	1.40	0.00	104.12	:	?UNDEF	?UNDEF	?UNDEF	:	15.90	0.00	096.43	097.09	:	17.30	0.00	?UNDEF	?UNDEF
13	1.40	0.00	104.40	:	?UNDEF	?UNDEF	?UNDEF	:	17.50	0.00	096.48	096.98	:	17.40	0.00	?UNDEF	?UNDEF
14	1.40	0.00	104.60	:	?UNDEF	?UNDEF	?UNDEF	:	15.90	0.00	096.40	097.58	:	17.30	0.00	?UNDEF	?UNDEF
15	1.50	0.00	104.93	:	?UNDEF	?UNDEF	?UNDEF	:	15.90	0.00	096.27	097.18	:	17.30	0.00	?UNDEF	?UNDEF
16	1.40	0.00	104.53	:	?UNDEF	?UNDEF	?UNDEF	:	15.90	0.00	096.10	097.02	:	17.20	0.00	?UNDEF	?UNDEF
17	1.40	0.00	104.11	:	?UNDEF	?UNDEF	?UNDEF	:	16.20	0.00	095.92	096.95	:	17.20	0.00	?UNDEF	?UNDEF
18	1.40	0.00	103.73	:	?UNDEF	?UNDEF	?UNDEF	:	16.10	0.00	095.84	096.79	:	17.50	0.00	?UNDEF	?UNDEF
19	1.50	0.00	104.11	:	?UNDEF	?UNDEF	?UNDEF	:	16.10	0.00	095.91	096.80	:	17.30	0.00	?UNDEF	?UNDEF
20	1.40	0.00	103.56	:	?UNDEF	?UNDEF	?UNDEF	:	16.00	0.00	095.89	096.80	:	17.10	0.00	?UNDEF	?UNDEF
21	1.40	0.00	103.52	:	?UNDEF	?UNDEF	?UNDEF	:	17.80	0.00	096.00	097.50	:	17.10	0.00	?UNDEF	?UNDEF
22	1.40	0.00	103.62	:	?UNDEF	?UNDEF	?UNDEF	:	13.50	0.00	096.04	097.22	:	13.10	0.00	?UNDEF	?UNDEF
23	1.40	0.00	103.48	:	?UNDEF	?UNDEF	?UNDEF	:	13.10	0.00	096.07	097.00	:	12.80	0.00	?UNDEF	?UNDEF
24	1.50	0.00	103.33	:	?UNDEF	?UNDEF	?UNDEF	:	13.00	0.00	096.03	096.96	:	14.10	0.00	?UNDEF	?UNDEF
:	LOWER MONUMENTAL			:	ICE HARBOR			:	MCNARY			:	PASCO				
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	:	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	:	GAS % SAT
1	13.90	0.00	?UNDEF	?UNDEF	:	13.30	0.00	094.52	096.03	:	60.30	0.00	096.28	095.82	095.98	:	096.74
2	13.90	0.00	?UNDEF	?UNDEF	:	11.20	0.00	094.53	096.06	:	60.50	0.00	096.33	095.67	095.98	:	096.62
3	13.90	0.00	?UNDEF	?UNDEF	:	12.70	0.00	094.57	096.10	:	60.70	0.00	096.22	095.87	096.02	:	096.67
4	14.10	0.00	?UNDEF	?UNDEF	:	11.60	0.00	094.59	096.77	:	60.80	0.00	096.09	095.99	096.03	:	096.56
5	13.90	0.00	?UNDEF	?UNDEF	:	11.50	0.00	094.45	097.45	:	60.80	0.00	096.27	095.88	096.07	:	096.57
6	13.90	0.00	?UNDEF	?UNDEF	:	11.50	0.00	094.63	097.36	:	64.40	0.00	096.30	095.80	096.25	:	096.45
7	15.30	0.00	?UNDEF	?UNDEF	:	11.10	0.00	094.50	096.84	:	64.70	0.00	096.31	095.84	096.22	:	096.51
8	14.10	0.00	?UNDEF	?UNDEF	:	11.30	0.00	094.51	097.52	:	64.90	0.00	096.32	095.80	096.08	:	096.48
9	20.50	0.00	?UNDEF	?UNDEF	:	18.00	0.00	094.50	096.98	:	64.90	0.00	096.27	095.93	096.12	:	096.32
10	21.30	0.00	?UNDEF	?UNDEF	:	18.30	0.00	094.51	096.87	:	64.80	0.00	096.32	095.93	096.08	:	096.40
11	21.00	0.00	?UNDEF	?UNDEF	:	20.60	0.00	094.55	097.04	:	65.40	0.00	096.36	095.86	096.27	:	096.42
12	20.90	0.00	?UNDEF	?UNDEF	:	20.70	0.00	094.62	097.14	:	65.40	0.00	096.39	096.19	096.38	:	096.51
13	20.80	0.00	?UNDEF	?UNDEF	:	20.60	0.00	094.78	097.01	:	65.30	0.00	096.49	096.39	096.41	:	096.66
14	20.80	0.00	?UNDEF	?UNDEF	:	20.70	0.00	094.81	096.95	:	65.60	0.00	096.37	096.32	096.49	:	096.75
15	20.90	0.00	?UNDEF	?UNDEF	:	21.10	0.00	094.72	096.80	:	65.50	0.00	096.38	096.44	096.73	:	096.89
16	21.20	0.00	?UNDEF	?UNDEF	:	20.70	0.00	094.58	096.66	:	65.40	0.00	096.41	096.44	097.00	:	096.91
17	21.00	0.00	?UNDEF	?UNDEF	:	20.60	0.00	094.64	096.59	:	66.20	0.00	096.41	096.32	096.78	:	097.07
18	20.30	0.00	?UNDEF	?UNDEF	:	20.50	0.00	094.59	096.56	:	78.90	0.00	096.39	096.33	096.49	:	097.01
19	20.30	0.00	?UNDEF	?UNDEF	:	20.60	0.00	094.67	096.49	:	98.00	0.00	096.46	096.49	096.36	:	097.05
20	20.30	0.00	?UNDEF	?UNDEF	:	20.50	0.00	094.65	096.47	:	98.20	0.00	096.43	096.36	096.27	:	097.04
21	20.10	0.00	?UNDEF	?UNDEF	:	20.70	0.00	094.46	096.45	:	78.70	0.00	096.30	096.35	096.12	:	097.03
22	14.20	0.00	?UNDEF	?UNDEF	:	18.20	0.00	094.47	096.42	:	60.60	0.00	096.29	096.31	095.94	:	097.03
23	13.80	0.00	?UNDEF	?UNDEF	:	12.70	0.00	094.47	096.38	:	59.70	0.00	096.21	096.26	095.91	:	097.01
24	13.80	0.00	?UNDEF	?UNDEF	:	11.20	0.00	094.47	096.25	:	59.60	0.00	096.10	096.14	096.08	:	097.01

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WALLA WALLA DISTRICT HYDRO PROJECTS
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	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR :	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1 :	1.40	0.00	102.92	?UNDEF	?UNDEF	?UNDEF	14.30	0.00	095.30	096.34	12.60	0.00	?UNDEF	?UNDEF
2 :	1.40	0.00	102.73	?UNDEF	?UNDEF	?UNDEF	12.60	0.00	094.96	097.63	12.80	0.00	?UNDEF	?UNDEF
3 :	1.40	0.00	102.85	?UNDEF	?UNDEF	?UNDEF	12.70	0.00	094.72	096.83	12.70	0.00	?UNDEF	?UNDEF
4 :	1.40	0.00	102.70	?UNDEF	?UNDEF	?UNDEF	16.80	0.00	094.74	096.30	12.70	0.00	?UNDEF	?UNDEF
5 :	1.40	0.00	102.67	?UNDEF	?UNDEF	?UNDEF	17.60	0.00	094.63	096.20	12.70	0.00	?UNDEF	?UNDEF
6 :	1.40	0.00	102.62	?UNDEF	?UNDEF	?UNDEF	17.20	0.00	094.75	096.19	12.70	0.00	?UNDEF	?UNDEF
7 :	1.40	0.00	102.49	?UNDEF	?UNDEF	?UNDEF	17.60	0.00	094.63	096.18	19.50	0.00	?UNDEF	?UNDEF
8 :	1.40	0.00	102.80	?UNDEF	?UNDEF	?UNDEF	17.70	0.00	094.76	096.08	20.00	0.00	?UNDEF	?UNDEF
9 :	1.40	0.00	102.82	?UNDEF	?UNDEF	?UNDEF	19.40	0.00	095.31	096.22	18.70	0.00	?UNDEF	?UNDEF
10 :	1.40	0.00	103.00	?UNDEF	?UNDEF	?UNDEF	17.90	0.00	095.45	096.77	20.90	0.00	?UNDEF	?UNDEF
11 :	1.40	0.00	103.38	?UNDEF	?UNDEF	?UNDEF	17.80	0.00	095.63	096.49	21.30	0.00	?UNDEF	?UNDEF
12 :	1.40	0.00	103.88	?UNDEF	?UNDEF	?UNDEF	17.70	0.00	095.53	096.45	21.00	0.00	?UNDEF	?UNDEF
13 :	1.40	0.00	104.29	?UNDEF	?UNDEF	?UNDEF	17.40	0.00	095.46	096.64	21.00	0.00	?UNDEF	?UNDEF
14 :	1.40	0.00	104.48	?UNDEF	?UNDEF	?UNDEF	17.40	0.00	095.53	096.40	21.00	0.00	?UNDEF	?UNDEF
15 :	1.40	0.00	104.83	?UNDEF	?UNDEF	?UNDEF	17.80	0.00	095.40	096.46	21.20	0.00	?UNDEF	?UNDEF
16 :	1.40	0.00	104.48	?UNDEF	?UNDEF	?UNDEF	17.60	0.00	095.31	096.46	21.60	0.00	?UNDEF	?UNDEF
17 :	1.40	0.00	103.96	?UNDEF	?UNDEF	?UNDEF	17.60	0.00	095.01	096.34	22.70	0.00	?UNDEF	?UNDEF
18 :	1.40	0.00	103.51	?UNDEF	?UNDEF	?UNDEF	17.50	0.00	094.96	096.30	21.20	0.00	?UNDEF	?UNDEF
19 :	1.50	0.00	103.96	?UNDEF	?UNDEF	?UNDEF	17.50	0.00	095.00	096.18	21.30	0.00	?UNDEF	?UNDEF
20 :	1.40	0.00	103.39	?UNDEF	?UNDEF	?UNDEF	16.90	0.00	095.15	096.33	18.50	0.00	?UNDEF	?UNDEF
21 :	1.40	0.00	103.26	?UNDEF	?UNDEF	?UNDEF	14.10	0.00	095.32	096.79	14.70	0.00	?UNDEF	?UNDEF
22 :	1.40	0.00	103.11	?UNDEF	?UNDEF	?UNDEF	13.10	0.00	095.25	096.55	13.50	0.00	?UNDEF	?UNDEF
23 :	1.40	0.00	103.11	?UNDEF	?UNDEF	?UNDEF	12.90	0.00	095.23	096.56	13.20	0.00	?UNDEF	?UNDEF
24 :	1.50	0.00	103.29	?UNDEF	?UNDEF	?UNDEF	12.90	0.00	095.26	096.60	13.30	0.00	?UNDEF	?UNDEF
	LOWER MONUMENTAL			ICE HARBOR			MCNARY			PASCO				
HOUR :	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1 :	13.60	0.00	?UNDEF	?UNDEF	13.00	0.00	094.37	096.17	63.30	0.00	096.00	095.51	095.71	096.60
2 :	13.50	0.00	?UNDEF	?UNDEF	11.40	0.00	094.33	096.15	62.80	0.00	095.86	095.35	095.67	096.47
3 :	13.80	0.00	?UNDEF	?UNDEF	11.20	0.00	094.24	096.02	62.70	0.00	096.12	095.52	095.66	096.33
4 :	13.50	0.00	?UNDEF	?UNDEF	11.20	0.00	094.24	096.04	64.50	0.00	095.91	095.52	095.80	096.22
5 :	13.50	0.00	?UNDEF	?UNDEF	11.20	0.00	094.22	096.82	80.20	0.00	095.76	095.65	095.85	096.08
6 :	13.50	0.00	?UNDEF	?UNDEF	11.20	0.00	094.24	096.34	111.80	0.00	095.78	095.82	096.23	096.09
7 :	13.70	0.00	?UNDEF	?UNDEF	11.10	0.00	094.22	096.31	118.20	0.00	095.78	095.77	096.09	096.03
8 :	13.80	0.00	?UNDEF	?UNDEF	11.20	0.00	094.21	096.39	119.20	0.00	095.86	095.61	095.77	095.87
9 :	18.70	0.00	?UNDEF	?UNDEF	11.70	0.00	094.15	096.36	130.30	0.00	095.54	095.58	095.77	095.85
10 :	21.30	0.00	?UNDEF	?UNDEF	23.60	0.00	094.18	096.51	129.90	0.00	095.81	095.73	095.66	096.00
11 :	21.10	0.00	?UNDEF	?UNDEF	22.70	0.00	094.18	096.70	128.20	0.00	096.00	095.63	095.79	096.03
12 :	21.00	0.00	?UNDEF	?UNDEF	24.10	0.00	094.27	097.31	122.20	0.00	095.95	095.73	095.76	096.27
13 :	22.40	0.00	?UNDEF	?UNDEF	23.10	0.00	094.34	096.95	105.20	0.00	095.98	095.91	095.77	096.47
14 :	20.80	0.00	?UNDEF	?UNDEF	24.00	0.00	094.40	096.46	91.00	0.00	096.15	095.78	095.82	096.63
15 :	22.30	0.00	?UNDEF	?UNDEF	22.60	0.00	094.42	096.50	84.90	0.00	096.03	095.82	095.87	096.68
16 :	21.20	0.00	?UNDEF	?UNDEF	24.10	0.00	094.46	096.64	84.60	0.00	096.19	095.83	095.89	096.73
17 :	20.80	0.00	?UNDEF	?UNDEF	24.90	0.00	094.47	096.64	80.80	0.00	096.12	095.89	095.92	096.77
18 :	20.80	0.00	?UNDEF	?UNDEF	26.30	0.00	094.52	096.27	80.50	0.00	096.15	095.94	095.83	096.79
19 :	20.80	0.00	?UNDEF	?UNDEF	26.50	0.00	094.50	096.44	79.40	0.00	096.15	095.94	095.82	096.77
20 :	20.80	0.00	?UNDEF	?UNDEF	24.30	0.00	094.54	096.08	78.40	0.00	096.16	095.94	095.85	096.82
21 :	20.60	0.00	?UNDEF	?UNDEF	20.80	0.00	094.56	096.51	72.00	0.00	096.24	095.86	095.88	096.80
22 :	14.20	0.00	?UNDEF	?UNDEF	18.30	0.00	094.56	096.08	70.40	0.00	096.21	095.72	095.89	096.83
23 :	13.70	0.00	?UNDEF	?UNDEF	15.10	0.00	094.44	096.51	68.50	0.00	096.12	095.33	095.88	096.80
24 :	13.80	0.00	?UNDEF	?UNDEF	12.70	0.00	094.45	096.37	61.00	0.00	096.24	095.50	095.93	096.80

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WALLA WALLA DISTRICT HYDRO PROJECTS
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	DWRSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR :	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1 :	1.40	0.00	103.05	?UNDEF	?UNDEF	?UNDEF	13.10	0.00	095.43	097.53	12.70	0.00	?UNDEF	?UNDEF
2 :	1.40	0.00	102.88	?UNDEF	?UNDEF	?UNDEF	13.00	0.00	095.31	096.62	12.60	0.00	?UNDEF	?UNDEF
3 :	1.40	0.00	102.91	?UNDEF	?UNDEF	?UNDEF	13.20	0.00	095.09	096.53	12.60	0.00	?UNDEF	?UNDEF
4 :	1.50	0.00	102.92	?UNDEF	?UNDEF	?UNDEF	13.00	0.00	095.40	096.42	12.70	0.00	?UNDEF	?UNDEF
5 :	1.40	0.00	102.92	?UNDEF	?UNDEF	?UNDEF	13.10	0.00	095.23	096.40	14.40	0.00	?UNDEF	?UNDEF
6 :	1.40	0.00	102.78	?UNDEF	?UNDEF	?UNDEF	16.80	0.00	095.09	096.29	13.40	0.00	?UNDEF	?UNDEF
7 :	1.40	0.00	102.69	?UNDEF	?UNDEF	?UNDEF	19.70	0.00	095.10	096.13	16.80	0.00	?UNDEF	?UNDEF
8 :	1.40	0.00	102.85	?UNDEF	?UNDEF	?UNDEF	20.40	.10	095.13	096.13	19.10	0.00	?UNDEF	?UNDEF
9 :	1.50	0.00	102.99	?UNDEF	?UNDEF	?UNDEF	20.40	.40	095.16	096.33	19.30	0.00	?UNDEF	?UNDEF
10 :	1.40	0.00	103.23	?UNDEF	?UNDEF	?UNDEF	23.20	3.10	095.33	096.62	19.50	0.00	?UNDEF	?UNDEF
11 :	1.40	0.00	103.42	?UNDEF	?UNDEF	?UNDEF	22.40	2.30	095.34	099.14	19.00	0.00	?UNDEF	?UNDEF
12 :	1.40	0.00	103.86	?UNDEF	?UNDEF	?UNDEF	18.70	2.50	095.51	101.73	19.10	0.00	?UNDEF	?UNDEF
13 :	1.40	0.00	104.32	?UNDEF	?UNDEF	?UNDEF	17.10	1.10	095.40	100.75	19.10	0.00	?UNDEF	?UNDEF
14 :	1.40	0.00	104.41	?UNDEF	?UNDEF	?UNDEF	17.30	1.80	095.47	099.16	19.00	0.00	?UNDEF	?UNDEF
15 :	1.40	0.00	104.31	?UNDEF	?UNDEF	?UNDEF	17.60	2.20	095.19	098.33	19.60	0.00	?UNDEF	?UNDEF
16 :	1.40	0.00	104.16	?UNDEF	?UNDEF	?UNDEF	17.40	2.10	095.08	098.64	19.20	0.00	?UNDEF	?UNDEF
17 :	1.40	0.00	103.76	?UNDEF	?UNDEF	?UNDEF	15.60	0.00	094.95	097.88	19.20	0.00	?UNDEF	?UNDEF
18 :	1.40	0.00	103.29	?UNDEF	?UNDEF	?UNDEF	16.00	0.00	094.93	097.35	19.10	0.00	?UNDEF	?UNDEF
19 :	1.50	0.00	103.76	?UNDEF	?UNDEF	?UNDEF	19.70	0.00	094.96	096.96	19.10	0.00	?UNDEF	?UNDEF
20 :	1.40	0.00	103.14	?UNDEF	?UNDEF	?UNDEF	16.00	0.00	094.97	096.91	19.30	0.00	?UNDEF	?UNDEF
21 :	1.40	0.00	102.97	?UNDEF	?UNDEF	?UNDEF	15.20	0.00	094.92	096.75	16.20	0.00	?UNDEF	?UNDEF
22 :	1.40	0.00	102.96	?UNDEF	?UNDEF	?UNDEF	15.00	0.00	094.89	096.64	16.00	0.00	?UNDEF	?UNDEF
23 :	1.50	0.00	102.97	?UNDEF	?UNDEF	?UNDEF	15.50	0.00	095.04	096.91	13.80	0.00	?UNDEF	?UNDEF
24 :	1.40	0.00	102.92	?UNDEF	?UNDEF	?UNDEF	12.90	0.00	094.76	096.88	13.60	0.00	?UNDEF	?UNDEF
	LOWER MONUMENTAL			ICE HARBOR			MCNARY			PASCO				
HOUR :	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1 :	13.80	0.00	?UNDEF	?UNDEF	11.30	0.00	094.28	096.08	63.00	0.00	095.78	095.44	095.58	097.02
2 :	13.70	0.00	?UNDEF	?UNDEF	11.40	0.00	094.30	096.22	66.30	0.00	095.94	095.57	095.75	096.95
3 :	13.70	0.00	?UNDEF	?UNDEF	11.20	0.00	094.29	096.23	66.00	0.00	095.97	095.73	095.64	096.81
4 :	14.10	0.00	?UNDEF	?UNDEF	11.20	0.00	094.30	096.25	66.40	0.00	095.86	095.66	095.67	096.70
5 :	13.80	0.00	?UNDEF	?UNDEF	11.20	0.00	094.30	096.39	89.80	0.00	095.74	095.63	095.77	096.57
6 :	13.80	0.00	?UNDEF	?UNDEF	12.50	0.00	094.31	096.38	121.40	0.00	095.74	095.78	096.14	096.58
7 :	14.10	0.00	?UNDEF	?UNDEF	12.90	0.00	094.31	096.52	124.10	0.00	095.73	095.74	095.89	096.43
8 :	19.60	0.00	?UNDEF	?UNDEF	19.50	0.00	094.29	096.51	123.90	0.00	095.69	095.75	095.62	096.41
9 :	20.00	0.00	?UNDEF	?UNDEF	19.40	0.00	094.31	096.66	124.10	0.00	095.98	095.76	095.76	096.27
10 :	19.70	0.00	?UNDEF	?UNDEF	19.30	0.00	094.28	096.67	124.00	0.00	095.97	095.76	095.60	096.39
11 :	21.30	0.00	?UNDEF	?UNDEF	19.40	0.00	094.33	096.71	106.10	0.00	096.01	095.26	095.82	096.40
12 :	20.00	0.00	?UNDEF	?UNDEF	19.30	0.00	094.36	096.71	105.50	0.00	095.91	095.42	095.73	096.60
13 :	19.70	0.00	?UNDEF	?UNDEF	19.70	0.00	094.38	096.63	105.30	0.00	095.94	095.71	095.92	096.69
14 :	19.70	0.00	?UNDEF	?UNDEF	19.30	0.00	094.44	096.65	104.70	0.00	096.15	095.88	095.80	096.84
15 :	21.20	0.00	?UNDEF	?UNDEF	19.20	0.00	094.48	096.68	104.10	0.00	096.16	095.92	095.84	097.01
16 :	19.80	0.00	?UNDEF	?UNDEF	19.30	0.00	094.50	096.57	113.20	0.00	096.05	096.09	096.01	097.30
17 :	21.60	0.00	?UNDEF	?UNDEF	19.30	0.00	094.39	096.43	115.30	0.00	096.07	096.07	095.98	097.30
18 :	19.70	0.00	?UNDEF	?UNDEF	19.60	0.00	094.38	096.43	114.60	0.00	096.05	096.06	095.96	097.28
19 :	19.70	0.00	?UNDEF	?UNDEF	19.20	0.00	094.36	096.43	114.20	0.00	096.07	095.95	096.01	097.14
20 :	19.50	0.00	?UNDEF	?UNDEF	19.30	0.00	094.41	096.32	98.60	0.00	095.91	095.93	095.98	097.13
21 :	16.20	0.00	?UNDEF	?UNDEF	18.50	0.00	094.37	096.29	91.70	0.00	095.88	095.93	095.85	097.00
22 :	15.80	0.00	?UNDEF	?UNDEF	18.20	0.00	094.38	096.31	88.80	0.00	096.01	095.77	095.84	096.88
23 :	14.40	0.00	?UNDEF	?UNDEF	18.10	0.00	094.37	096.29	80.60	0.00	095.90	095.78	095.85	096.75
24 :	13.50	0.00	?UNDEF	?UNDEF	19.50	0.00	094.37	096.19	66.60	0.00	095.91	095.26	095.67	096.75

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WALLA WALLA DISTRICT HYDRO PROJECTS
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	DWRSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	
1	1.40	0.00	102.57	?UNDEF	?UNDEF	?UNDEF	14.60	0.00	095.01	095.94	13.10	0.00	?UNDEF	?UNDEF	
2	1.40	0.00	102.69	?UNDEF	?UNDEF	?UNDEF	16.50	0.00	095.02	096.20	14.00	0.00	?UNDEF	?UNDEF	
3	1.40	0.00	102.53	?UNDEF	?UNDEF	?UNDEF	16.90	0.00	095.00	095.90	14.60	0.00	?UNDEF	?UNDEF	
4	1.40	0.00	102.45	?UNDEF	?UNDEF	?UNDEF	16.60	0.00	095.02	095.77	15.20	0.00	?UNDEF	?UNDEF	
5	1.50	0.00	102.49	?UNDEF	?UNDEF	?UNDEF	18.30	0.00	095.02	095.82	17.10	0.00	?UNDEF	?UNDEF	
6	1.40	0.00	102.45	?UNDEF	?UNDEF	?UNDEF	18.00	0.00	095.04	095.67	16.80	0.00	?UNDEF	?UNDEF	
7	1.40	0.00	102.43	?UNDEF	?UNDEF	?UNDEF	18.20	0.00	095.05	095.73	18.30	0.00	?UNDEF	?UNDEF	
8	1.40	0.00	102.58	?UNDEF	?UNDEF	?UNDEF	20.90	2.20	095.06	095.97	18.40	0.00	?UNDEF	?UNDEF	
9	1.40	0.00	102.98	?UNDEF	?UNDEF	?UNDEF	23.00	4.50	095.10	096.79	18.40	0.00	?UNDEF	?UNDEF	
10	1.50	0.00	103.22	?UNDEF	?UNDEF	?UNDEF	20.30	1.40	095.32	097.15	18.70	0.00	?UNDEF	?UNDEF	
11	1.40	0.00	103.37	?UNDEF	?UNDEF	?UNDEF	21.00	2.40	095.21	097.59	18.30	0.00	?UNDEF	?UNDEF	
12	1.40	0.00	103.60	?UNDEF	?UNDEF	?UNDEF	21.00	2.50	095.46	097.82	18.50	0.00	?UNDEF	?UNDEF	
13	1.40	0.00	103.92	?UNDEF	?UNDEF	?UNDEF	20.10	1.70	095.57	097.91	18.50	0.00	?UNDEF	?UNDEF	
14	1.40	0.00	104.30	?UNDEF	?UNDEF	?UNDEF	20.60	2.20	095.64	098.28	20.20	0.00	?UNDEF	?UNDEF	
15	1.50	0.00	104.44	?UNDEF	?UNDEF	?UNDEF	19.40	.80	095.43	097.77	19.90	0.00	?UNDEF	?UNDEF	
16	1.40	0.00	103.93	?UNDEF	?UNDEF	?UNDEF	19.10	.50	095.34	097.60	18.30	0.00	?UNDEF	?UNDEF	
17	1.40	0.00	103.42	?UNDEF	?UNDEF	?UNDEF	14.70	0.00	095.24	097.46	18.40	0.00	?UNDEF	?UNDEF	
18	1.40	0.00	103.24	?UNDEF	?UNDEF	?UNDEF	16.10	0.00	095.63	097.09	16.10	0.00	?UNDEF	?UNDEF	
19	1.40	0.00	103.42	?UNDEF	?UNDEF	?UNDEF	14.50	0.00	095.50	097.74	15.30	0.00	?UNDEF	?UNDEF	
20	1.40	0.00	102.95	?UNDEF	?UNDEF	?UNDEF	14.40	0.00	095.51	096.83	15.60	0.00	?UNDEF	?UNDEF	
21	1.40	0.00	103.04	?UNDEF	?UNDEF	?UNDEF	14.50	0.00	095.34	096.68	15.30	0.00	?UNDEF	?UNDEF	
22	1.40	0.00	102.91	?UNDEF	?UNDEF	?UNDEF	15.90	0.00	095.31	096.63	15.10	0.00	?UNDEF	?UNDEF	
23	1.40	0.00	102.92	?UNDEF	?UNDEF	?UNDEF	13.10	0.00	095.39	096.97	15.40	0.00	?UNDEF	?UNDEF	
24	1.40	0.00	102.89	?UNDEF	?UNDEF	?UNDEF	16.40	0.00	095.54	097.64	12.90	0.00	?UNDEF	?UNDEF	
	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT	
1	13.70	0.00	?UNDEF	?UNDEF	19.60	0.00	093.95	095.21	72.60	0.00	095.31	095.37	095.26	096.28	
2	14.50	0.00	?UNDEF	?UNDEF	18.20	0.00	093.90	095.16	83.60	0.00	095.15	095.19	095.36	096.11	
3	14.50	0.00	?UNDEF	?UNDEF	18.50	0.00	093.80	095.18	82.20	0.00	095.18	095.23	095.26	095.97	
4	15.90	0.00	?UNDEF	?UNDEF	18.20	0.00	093.66	095.29	92.00	0.00	095.21	095.22	095.12	095.85	
5	16.10	0.00	?UNDEF	?UNDEF	18.20	0.00	093.65	096.07	120.00	0.00	095.20	095.23	095.10	095.71	
6	17.60	0.00	?UNDEF	?UNDEF	18.10	0.00	093.61	095.69	123.60	0.00	095.15	095.21	095.21	095.69	
7	18.20	0.00	?UNDEF	?UNDEF	18.10	0.00	093.64	095.69	136.50	0.00	094.92	095.22	095.08	095.58	
8	18.60	0.00	?UNDEF	?UNDEF	18.40	0.00	093.61	095.67	131.50	0.00	095.02	095.21	095.08	095.54	
9	18.40	0.00	?UNDEF	?UNDEF	18.10	0.00	093.62	095.71	124.80	0.00	095.06	095.22	095.09	095.57	
10	18.30	0.00	?UNDEF	?UNDEF	18.10	0.00	093.65	095.77	123.20	0.00	095.21	095.24	095.13	095.62	
11	18.40	0.00	?UNDEF	?UNDEF	18.10	0.00	093.70	095.95	122.90	0.00	095.37	095.42	095.33	095.85	
12	18.40	0.00	?UNDEF	?UNDEF	19.60	0.00	093.81	096.09	124.30	0.00	095.61	095.39	095.40	096.33	
13	18.40	0.00	?UNDEF	?UNDEF	18.10	0.00	093.92	096.33	122.80	0.00	095.71	095.62	095.50	096.85	
14	18.30	0.00	?UNDEF	?UNDEF	18.40	0.00	094.03	096.35	127.40	0.00	095.77	095.70	095.59	097.20	
15	20.10	0.00	?UNDEF	?UNDEF	18.30	0.00	094.07	096.86	136.50	0.00	096.01	095.76	095.68	097.68	
16	18.30	0.00	?UNDEF	?UNDEF	18.10	0.00	094.12	096.73	132.00	0.00	095.90	095.94	095.56	097.70	
17	18.30	0.00	?UNDEF	?UNDEF	19.70	0.00	094.17	096.46	133.90	0.00	095.91	095.96	095.60	097.73	
18	18.30	0.00	?UNDEF	?UNDEF	18.20	0.00	094.26	096.32	137.50	0.00	095.91	095.83	095.60	097.56	
19	16.10	0.00	?UNDEF	?UNDEF	18.20	0.00	094.28	096.36	130.40	0.00	095.95	095.69	095.49	097.61	
20	16.10	0.00	?UNDEF	?UNDEF	18.20	0.00	094.27	096.19	127.20	0.00	095.95	095.72	095.45	097.46	
21	16.40	0.00	?UNDEF	?UNDEF	13.10	0.00	094.14	096.71	117.20	0.00	095.82	095.71	095.60	097.44	
22	16.00	0.00	?UNDEF	?UNDEF	12.60	0.00	094.20	096.48	98.40	0.00	095.84	095.73	095.65	097.36	
23	13.70	0.00	?UNDEF	?UNDEF	11.20	0.00	094.22	096.12	73.80	0.00	095.88	095.78	095.55	097.26	
24	13.70	0.00	?UNDEF	?UNDEF	11.20	0.00	094.25	096.04	65.90	0.00	095.88	095.65	095.55	097.26	

07 NOV 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

07 NOV 2001

HOUR	DWRSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
	TOTAL DISCH. KCFS	SPILL KCFS	GAS TAILW.	%SAT	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT	TAILW.
1	1.40	0.00	102.88	?UNDEF	?UNDEF	?UNDEF	?UNDEF	16.20	0.00	095.36	096.41	14.20	0.00	?UNDEF	?UNDEF	
2	1.40	0.00	102.96	?UNDEF	?UNDEF	?UNDEF	?UNDEF	15.70	0.00	095.30	096.49	15.40	0.00	?UNDEF	?UNDEF	
3	1.40	0.00	103.00	?UNDEF	?UNDEF	?UNDEF	?UNDEF	16.80	0.00	095.11	096.25	17.10	0.00	?UNDEF	?UNDEF	
4	1.40	0.00	103.06	?UNDEF	?UNDEF	?UNDEF	?UNDEF	16.90	0.00	095.06	096.08	17.00	0.00	?UNDEF	?UNDEF	
5	1.50	0.00	102.99	?UNDEF	?UNDEF	?UNDEF	?UNDEF	18.10	0.00	094.99	096.05	18.50	0.00	?UNDEF	?UNDEF	
6	1.40	0.00	102.80	?UNDEF	?UNDEF	?UNDEF	?UNDEF	18.20	0.00	094.90	095.80	18.50	0.00	?UNDEF	?UNDEF	
7	1.40	0.00	102.70	?UNDEF	?UNDEF	?UNDEF	?UNDEF	18.70	0.00	094.85	095.74	17.50	0.00	?UNDEF	?UNDEF	
8	1.40	0.00	103.07	?UNDEF	?UNDEF	?UNDEF	?UNDEF	19.70	.20	094.87	095.64	17.90	0.00	?UNDEF	?UNDEF	
9	1.40	0.00	103.28	?UNDEF	?UNDEF	?UNDEF	?UNDEF	20.70	.70	094.86	095.90	20.00	0.00	?UNDEF	?UNDEF	
10	1.40	0.00	103.53	?UNDEF	?UNDEF	?UNDEF	?UNDEF	22.40	2.20	094.84	096.39	20.10	0.00	?UNDEF	?UNDEF	
11	1.40	0.00	103.53	?UNDEF	?UNDEF	?UNDEF	?UNDEF	21.80	1.60	094.97	098.76	26.50	0.00	?UNDEF	?UNDEF	
12	1.40	0.00	103.89	?UNDEF	?UNDEF	?UNDEF	?UNDEF	22.40	2.20	095.15	097.84	26.70	0.00	?UNDEF	?UNDEF	
13	1.40	0.00	103.95	?UNDEF	?UNDEF	?UNDEF	?UNDEF	19.90	0.00	095.21	097.01	27.60	0.00	?UNDEF	?UNDEF	
14	1.40	0.00	104.01	?UNDEF	?UNDEF	?UNDEF	?UNDEF	20.90	1.20	095.14	097.19	26.90	0.00	?UNDEF	?UNDEF	
15	1.40	0.00	104.05	?UNDEF	?UNDEF	?UNDEF	?UNDEF	21.60	1.30	095.05	097.12	26.90	0.00	?UNDEF	?UNDEF	
16	1.40	0.00	103.92	?UNDEF	?UNDEF	?UNDEF	?UNDEF	20.30	.10	094.94	097.39	26.90	0.00	?UNDEF	?UNDEF	
17	1.40	0.00	103.49	?UNDEF	?UNDEF	?UNDEF	?UNDEF	19.90	0.00	094.90	096.71	26.70	0.00	?UNDEF	?UNDEF	
18	1.40	0.00	103.15	?UNDEF	?UNDEF	?UNDEF	?UNDEF	21.90	0.00	095.14	096.54	25.20	0.00	?UNDEF	?UNDEF	
19	1.40	0.00	103.49	?UNDEF	?UNDEF	?UNDEF	?UNDEF	19.90	0.00	094.83	096.54	25.20	0.00	?UNDEF	?UNDEF	
20	1.40	0.00	102.92	?UNDEF	?UNDEF	?UNDEF	?UNDEF	19.00	0.00	095.01	096.14	26.10	0.00	?UNDEF	?UNDEF	
21	1.40	0.00	102.89	?UNDEF	?UNDEF	?UNDEF	?UNDEF	18.50	0.00	095.02	096.03	21.40	0.00	?UNDEF	?UNDEF	
22	1.40	0.00	102.89	?UNDEF	?UNDEF	?UNDEF	?UNDEF	17.10	0.00	095.01	096.03	18.60	0.00	?UNDEF	?UNDEF	
23	1.40	0.00	102.77	?UNDEF	?UNDEF	?UNDEF	?UNDEF	17.30	0.00	094.89	095.88	14.70	0.00	?UNDEF	?UNDEF	
24	1.50	0.00	102.77	?UNDEF	?UNDEF	?UNDEF	?UNDEF	16.30	0.00	094.90	095.94	14.80	0.00	?UNDEF	?UNDEF	
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT	GAS %	TAILW.	SAT
1	14.20	0.00	?UNDEF	?UNDEF	19.60	0.00	094.34	096.15	76.00	0.00	095.85	095.74	095.56		096.22	
2	15.10	0.00	?UNDEF	?UNDEF	12.70	0.00	094.27	096.05	80.50	0.00	095.66	095.69	095.59		096.01	
3	16.70	0.00	?UNDEF	?UNDEF	12.50	0.00	094.19	095.86	87.30	0.00	095.57	095.48	095.53		095.63	
4	17.00	0.00	?UNDEF	?UNDEF	14.00	0.00	094.14	095.79	101.50	0.00	095.52	095.41	095.44		095.47	
5	16.70	0.00	?UNDEF	?UNDEF	14.30	0.00	094.09	095.72	121.00	0.00	095.48	095.52	095.40		095.15	
6	16.70	0.00	?UNDEF	?UNDEF	18.30	0.00	093.91	095.95	123.60	0.00	095.28	095.44	095.46		094.95	
7	18.20	0.00	?UNDEF	?UNDEF	18.00	0.00	093.90	097.11	142.00	0.00	095.38	095.27	095.42		094.79	
8	20.90	0.00	?UNDEF	?UNDEF	19.70	0.00	093.74	097.06	137.90	0.00	095.15	095.30	095.32		094.62	
9	21.40	0.00	?UNDEF	?UNDEF	19.80	0.00	093.68	096.36	136.00	0.00	095.22	095.24	095.30		094.72	
10	23.20	0.00	?UNDEF	?UNDEF	23.20	0.00	093.63	095.98	133.80	0.00	095.30	095.23	095.37		094.74	
11	26.60	0.00	?UNDEF	?UNDEF	29.50	0.00	093.74	096.07	122.30	0.00	095.37	095.08	095.37		095.01	
12	29.20	0.00	?UNDEF	?UNDEF	29.00	0.00	093.80	096.81	121.30	0.00	095.88	095.11	095.40		095.35	
13	29.60	0.00	?UNDEF	?UNDEF	29.80	0.00	093.84	096.88	121.90	0.00	096.04	095.46	095.59		095.79	
14	29.60	0.00	?UNDEF	?UNDEF	31.40	0.00	093.91	096.10	122.20	0.00	095.82	095.62	095.67		096.23	
15	31.00	0.00	?UNDEF	?UNDEF	31.30	0.00	093.92	095.90	122.10	0.00	096.14	095.82	095.32		096.53	
16	31.30	0.00	?UNDEF	?UNDEF	30.40	0.00	093.97	095.75	122.00	0.00	096.16	095.97	095.47		097.00	
17	30.10	0.00	?UNDEF	?UNDEF	30.10	0.00	093.97	095.74	122.50	0.00	096.05	095.94	095.47		096.96	
18	30.50	0.00	?UNDEF	?UNDEF	29.80	0.00	093.91	095.83	111.50	0.00	095.88	095.80	095.41		096.88	
19	29.90	0.00	?UNDEF	?UNDEF	29.70	0.00	093.87	095.41	96.40	0.00	095.85	095.79	095.28		096.75	
20	29.90	0.00	?UNDEF	?UNDEF	29.50	0.00	093.90	095.40	90.00	0.00	095.57	095.75	095.15		096.79	
21	29.90	0.00	?UNDEF	?UNDEF	29.60	0.00	093.92	095.28	89.40	0.00	095.54	095.59	095.10		096.66	
22	29.70	0.00	?UNDEF	?UNDEF	30.00	0.00	093.92	095.32	87.90	0.00	095.45	095.48	095.15		096.56	
23	18.00	0.00	?UNDEF	?UNDEF	26.60	0.00	093.93	095.33	86.30	0.00	095.46	095.52	095.15		096.57	
24	13.90	0.00	?UNDEF	?UNDEF	18.40	0.00	093.92	095.18	79.00	0.00	095.33	095.52	095.28		096.57	

06 NOV 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

06 NOV 2001

	DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR :	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	
1 :	1.40	0.00	103.85	?UNDEF	?UNDEF	?UNDEF	19.40	0.00	?UNDEF	097.29	19.70	0.00	?UNDEF	?UNDEF	
2 :	1.40	0.00	103.86	?UNDEF	?UNDEF	?UNDEF	19.90	0.00	096.04	097.37	19.60	0.00	?UNDEF	?UNDEF	
3 :	1.40	0.00	103.80	?UNDEF	?UNDEF	?UNDEF	19.90	0.00	096.00	097.34	21.00	0.00	?UNDEF	?UNDEF	
4 :	1.40	0.00	103.61	?UNDEF	?UNDEF	?UNDEF	20.10	0.00	096.06	097.40	21.20	0.00	?UNDEF	?UNDEF	
5 :	1.50	0.00	103.68	?UNDEF	?UNDEF	?UNDEF	19.80	0.00	096.00	097.32	19.60	0.00	?UNDEF	?UNDEF	
6 :	1.40	0.00	103.71	?UNDEF	?UNDEF	?UNDEF	19.70	0.00	096.21	097.41	20.10	0.00	?UNDEF	?UNDEF	
7 :	1.40	0.00	103.79	?UNDEF	?UNDEF	?UNDEF	20.00	0.00	096.38	097.47	19.80	0.00	?UNDEF	?UNDEF	
8 :	1.40	0.00	104.12	?UNDEF	?UNDEF	?UNDEF	21.40	1.50	096.44	097.36	19.80	0.00	?UNDEF	?UNDEF	
9 :	1.40	0.00	104.71	?UNDEF	?UNDEF	?UNDEF	20.50	1.10	096.42	098.67	20.60	0.00	?UNDEF	?UNDEF	
10 :	1.50	0.00	105.05	?UNDEF	?UNDEF	?UNDEF	21.00	1.20	096.32	098.58	20.70	0.00	?UNDEF	?UNDEF	
11 :	1.40	0.00	105.08	?UNDEF	?UNDEF	?UNDEF	19.70	.30	096.24	098.50	20.80	0.00	?UNDEF	?UNDEF	
12 :	1.40	0.00	105.25	?UNDEF	?UNDEF	?UNDEF	20.80	1.40	096.11	098.62	21.30	0.00	?UNDEF	?UNDEF	
13 :	1.40	0.00	104.85	?UNDEF	?UNDEF	?UNDEF	20.60	1.00	*****	*****	20.70	0.00	?UNDEF	?UNDEF	
14 :	1.40	0.00	104.43	?UNDEF	?UNDEF	?UNDEF	21.20	1.70	096.14	098.42	21.10	0.00	?UNDEF	?UNDEF	
15 :	1.50	0.00	104.04	?UNDEF	?UNDEF	?UNDEF	20.00	1.60	096.03	099.45	26.00	0.00	?UNDEF	?UNDEF	
16 :	1.40	0.00	103.78	?UNDEF	?UNDEF	?UNDEF	17.30	1.60	095.83	098.71	18.00	0.00	?UNDEF	?UNDEF	
17 :	1.40	0.00	103.55	?UNDEF	?UNDEF	?UNDEF	16.30	0.00	095.73	098.35	17.20	0.00	?UNDEF	?UNDEF	
18 :	1.40	0.00	103.60	?UNDEF	?UNDEF	?UNDEF	14.50	0.00	095.47	098.82	18.30	0.00	?UNDEF	?UNDEF	
19 :	1.40	0.00	103.55	?UNDEF	?UNDEF	?UNDEF	14.40	0.00	095.16	097.41	16.80	0.00	?UNDEF	?UNDEF	
20 :	1.40	0.00	103.68	?UNDEF	?UNDEF	?UNDEF	15.50	0.00	095.12	097.07	16.80	0.00	?UNDEF	?UNDEF	
21 :	1.40	0.00	103.46	?UNDEF	?UNDEF	?UNDEF	15.30	0.00	095.07	096.76	18.30	0.00	?UNDEF	?UNDEF	
22 :	1.40	0.00	103.37	?UNDEF	?UNDEF	?UNDEF	16.20	0.00	095.11	097.21	16.10	0.00	?UNDEF	?UNDEF	
23 :	1.40	0.00	103.31	?UNDEF	?UNDEF	?UNDEF	14.50	0.00	094.80	096.86	14.20	0.00	?UNDEF	?UNDEF	
24 :	1.50	0.00	103.10	?UNDEF	?UNDEF	?UNDEF	14.40	0.00	095.02	096.45	14.20	0.00	?UNDEF	?UNDEF	
	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR :	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT	
1 :	13.80	0.00	?UNDEF	?UNDEF	12.40	0.00	095.20	096.76	76.20	0.00	096.62	096.56	096.68	097.73	
2 :	19.60	0.00	?UNDEF	?UNDEF	13.10	0.00	095.14	096.82	84.20	0.00	096.72	096.71	096.74	097.54	
3 :	19.80	0.00	?UNDEF	?UNDEF	19.40	0.00	095.18	096.87	94.30	0.00	096.62	096.65	096.78	097.42	
4 :	19.70	0.00	?UNDEF	?UNDEF	19.30	0.00	095.28	097.07	111.30	0.00	096.83	096.75	096.92	097.22	
5 :	19.80	0.00	?UNDEF	?UNDEF	19.30	0.00	095.45	097.41	122.40	0.00	096.71	096.92	096.92	097.18	
6 :	19.70	0.00	?UNDEF	?UNDEF	20.60	0.00	095.53	097.28	130.50	0.00	096.80	096.98	097.01	096.97	
7 :	19.70	0.00	?UNDEF	?UNDEF	19.10	0.00	095.53	097.34	132.90	0.00	096.65	096.95	096.96	096.95	
8 :	22.30	0.00	?UNDEF	?UNDEF	20.40	0.00	095.50	097.17	132.10	0.00	096.73	097.03	096.80	097.06	
9 :	21.40	0.00	?UNDEF	?UNDEF	20.10	0.00	095.47	097.15	128.80	0.00	096.80	096.95	096.70	097.17	
10 :	21.10	0.00	?UNDEF	?UNDEF	21.90	0.00	095.39	097.61	127.80	0.00	096.67	096.74	096.66	097.10	
11 :	22.50	0.00	?UNDEF	?UNDEF	20.20	0.00	095.28	097.14	128.10	0.00	096.74	096.79	096.56	097.15	
12 :	21.00	0.00	?UNDEF	?UNDEF	20.20	0.00	095.09	097.07	127.50	0.00	096.68	096.64	096.53	097.12	
13 :	21.00	0.00	?UNDEF	?UNDEF	20.70	0.00	095.06	097.19	93.60	0.00	096.69	096.72	096.52	097.21	
14 :	21.20	0.00	?UNDEF	?UNDEF	20.60	0.00	094.99	097.14	92.80	0.00	096.86	096.84	096.46	097.29	
15 :	21.50	0.00	?UNDEF	?UNDEF	20.60	0.00	095.05	097.05	93.10	0.00	096.84	096.73	096.37	097.36	
16 :	21.30	0.00	?UNDEF	?UNDEF	20.70	0.00	094.87	097.09	102.60	0.00	096.93	096.73	096.37	097.44	
17 :	22.90	0.00	?UNDEF	?UNDEF	20.70	0.00	094.78	096.83	104.90	0.00	096.59	096.47	096.29	097.34	
18 :	21.40	0.00	?UNDEF	?UNDEF	20.70	0.00	094.70	096.68	105.10	0.00	096.53	096.46	096.19	097.16	
19 :	21.40	0.00	?UNDEF	?UNDEF	21.00	0.00	094.70	096.51	109.10	0.00	096.32	096.50	095.99	097.12	
20 :	21.50	0.00	?UNDEF	?UNDEF	22.10	0.00	094.62	096.43	104.00	0.00	096.23	096.45	095.91	096.90	
21 :	21.60	0.00	?UNDEF	?UNDEF	20.50	0.00	094.57	096.38	99.50	0.00	096.10	096.24	095.89	096.85	
22 :	17.60	0.00	?UNDEF	?UNDEF	20.50	0.00	094.50	096.29	97.30	0.00	095.99	096.18	095.79	096.65	
23 :	18.80	0.00	?UNDEF	?UNDEF	19.20	0.00	094.47	096.42	80.00	0.00	095.96	096.15	095.76	096.47	
24 :	15.80	0.00	?UNDEF	?UNDEF	18.60	0.00	094.40	096.44	78.20	0.00	095.87	095.92	095.73	096.47	

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WALLA WALLA DISTRICT HYDRO PROJECTS
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	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR :	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.
1 :	1.40	0.00	103.88	?UNDEF	?UNDEF	?UNDEF	16.10	0.00	096.90	097.17	18.00	0.00	?UNDEF	?UNDEF
2 :	1.40	0.00	103.68	?UNDEF	?UNDEF	?UNDEF	16.00	0.00	096.76	097.16	16.00	0.00	?UNDEF	?UNDEF
3 :	1.40	0.00	103.74	?UNDEF	?UNDEF	?UNDEF	15.50	0.00	*****	097.17	16.00	0.00	?UNDEF	?UNDEF
4 :	1.50	0.00	103.73	?UNDEF	?UNDEF	?UNDEF	17.20	0.00	?UNDEF	096.97	15.90	0.00	?UNDEF	?UNDEF
5 :	1.40	0.00	103.60	?UNDEF	?UNDEF	?UNDEF	19.90	0.00	097.19	097.15	15.30	0.00	?UNDEF	?UNDEF
6 :	1.40	0.00	103.68	?UNDEF	?UNDEF	?UNDEF	18.80	0.00	?UNDEF	?UNDEF	18.50	0.00	?UNDEF	?UNDEF
7 :	1.40	0.00	103.46	?UNDEF	?UNDEF	?UNDEF	19.10	0.00	?UNDEF	?UNDEF	18.20	0.00	?UNDEF	?UNDEF
8 :	1.40	0.00	103.53	?UNDEF	?UNDEF	?UNDEF	19.80	0.00	?UNDEF	?UNDEF	18.20	0.00	?UNDEF	?UNDEF
9 :	1.50	0.00	103.98	?UNDEF	?UNDEF	?UNDEF	20.00	0.00	?UNDEF	?UNDEF	19.60	0.00	?UNDEF	?UNDEF
10 :	1.40	0.00	104.31	?UNDEF	?UNDEF	?UNDEF	19.80	0.00	?UNDEF	?UNDEF	19.80	0.00	?UNDEF	?UNDEF
11 :	1.40	0.00	104.33	?UNDEF	?UNDEF	?UNDEF	19.70	0.00	?UNDEF	?UNDEF	20.20	0.00	?UNDEF	?UNDEF
12 :	1.40	0.00	104.43	?UNDEF	?UNDEF	?UNDEF	20.10	0.00	?UNDEF	?UNDEF	19.90	0.00	?UNDEF	?UNDEF
13 :	1.40	0.00	104.57	?UNDEF	?UNDEF	?UNDEF	20.40	.60	?UNDEF	?UNDEF	19.90	0.00	?UNDEF	?UNDEF
14 :	1.40	0.00	104.52	?UNDEF	?UNDEF	?UNDEF	20.30	.50	096.34	096.58	19.90	0.00	?UNDEF	?UNDEF
15 :	1.50	0.00	104.52	?UNDEF	?UNDEF	?UNDEF	20.40	.60	000.00	097.62	20.00	0.00	?UNDEF	?UNDEF
16 :	1.40	0.00	104.36	?UNDEF	?UNDEF	?UNDEF	22.30	2.40	000.00	097.71	21.80	0.00	?UNDEF	?UNDEF
17 :	1.40	0.00	103.90	?UNDEF	?UNDEF	?UNDEF	21.20	.90	?UNDEF	098.35	19.90	0.00	?UNDEF	?UNDEF
18 :	1.40	0.00	103.90	?UNDEF	?UNDEF	?UNDEF	19.90	0.00	?UNDEF	098.08	19.80	0.00	?UNDEF	?UNDEF
19 :	1.40	0.00	103.90	?UNDEF	?UNDEF	?UNDEF	19.80	0.00	000.00	097.72	23.00	0.00	?UNDEF	?UNDEF
20 :	1.40	0.00	103.77	?UNDEF	?UNDEF	?UNDEF	20.00	0.00	000.00	097.46	21.60	0.00	?UNDEF	?UNDEF
21 :	1.40	0.00	103.90	?UNDEF	?UNDEF	?UNDEF	21.90	0.00	096.19	098.15	22.00	0.00	?UNDEF	?UNDEF
22 :	1.40	0.00	103.92	?UNDEF	?UNDEF	?UNDEF	21.80	0.00	?UNDEF	097.38	22.80	0.00	?UNDEF	?UNDEF
23 :	1.40	0.00	103.88	?UNDEF	?UNDEF	?UNDEF	15.90	0.00	?UNDEF	098.23	14.20	0.00	?UNDEF	?UNDEF
24 :	1.40	0.00	103.88	?UNDEF	?UNDEF	?UNDEF	13.60	0.00	?UNDEF	098.56	13.90	0.00	?UNDEF	?UNDEF
	LOWER MONUMENTAL			ICE HARBOR			MCNARY			PASCO				
HOUR :	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1 :	16.50	0.00	?UNDEF	?UNDEF	18.40	0.00	?UNDEF	?UNDEF	60.20	0.00	096.63	097.10	097.13	098.38
2 :	14.90	0.00	?UNDEF	?UNDEF	18.00	0.00	?UNDEF	?UNDEF	60.30	0.00	096.87	097.09	096.95	098.35
3 :	16.20	0.00	?UNDEF	?UNDEF	18.00	0.00	?UNDEF	?UNDEF	60.10	0.00	097.02	097.04	096.95	098.23
4 :	14.60	0.00	?UNDEF	?UNDEF	18.00	0.00	?UNDEF	?UNDEF	60.10	0.00	097.12	097.03	096.94	098.16
5 :	15.10	0.00	?UNDEF	?UNDEF	18.50	0.00	095.27	096.70	60.60	0.00	096.50	096.80	096.84	097.92
6 :	15.70	0.00	?UNDEF	?UNDEF	19.70	0.00	095.17	096.70	75.30	0.00	096.54	096.72	096.72	097.72
7 :	17.90	0.00	?UNDEF	?UNDEF	18.20	0.00	095.08	096.77	78.40	0.00	096.29	096.62	096.65	097.62
8 :	17.70	0.00	?UNDEF	?UNDEF	19.50	0.00	094.98	097.70	78.40	0.00	096.29	096.49	096.52	097.33
9 :	17.80	0.00	?UNDEF	?UNDEF	18.00	0.00	*****	*****	78.30	0.00	096.22	096.56	096.57	097.07
10 :	20.70	0.00	?UNDEF	?UNDEF	18.00	0.00	094.99	096.83	78.80	0.00	*****	096.49	096.91	097.01
11 :	20.80	0.00	?UNDEF	?UNDEF	18.30	0.00	094.92	096.74	78.30	0.00	096.32	*****	097.21	097.08
12 :	20.80	0.00	?UNDEF	?UNDEF	18.00	0.00	094.96	097.62	78.30	0.00	096.37	096.69	097.51	097.25
13 :	22.70	0.00	?UNDEF	?UNDEF	18.00	0.00	094.99	097.13	78.50	0.00	096.33	096.68	*****	097.39
14 :	22.40	0.00	?UNDEF	?UNDEF	18.00	0.00	094.97	097.67	78.30	0.00	096.43	096.56	097.64	097.52
15 :	20.90	0.00	?UNDEF	?UNDEF	19.50	0.00	094.96	097.62	78.50	0.00	096.45	096.52	097.46	097.62
16 :	20.90	0.00	?UNDEF	?UNDEF	18.30	0.00	094.99	097.04	78.30	0.00	096.64	096.57	097.26	097.65
17 :	20.90	0.00	?UNDEF	?UNDEF	18.00	0.00	094.99	096.92	95.70	0.00	096.51	096.58	097.14	097.81
18 :	20.90	0.00	?UNDEF	?UNDEF	19.50	0.00	094.97	097.58	97.20	0.00	096.63	096.68	097.10	097.92
19 :	22.90	0.00	?UNDEF	?UNDEF	20.80	0.00	095.00	096.79	96.80	0.00	096.55	096.71	097.01	097.96
20 :	22.00	0.00	?UNDEF	?UNDEF	21.90	0.00	094.99	096.70	96.70	0.00	096.37	096.71	096.85	097.96
21 :	21.40	0.00	?UNDEF	?UNDEF	22.00	0.00	095.00	097.09	96.60	0.00	096.67	096.61	096.76	097.85
22 :	20.80	0.00	?UNDEF	?UNDEF	22.30	0.00	095.07	096.89	94.90	0.00	096.67	096.63	096.81	097.89
23 :	14.00	0.00	?UNDEF	?UNDEF	18.10	0.00	095.12	096.79	67.40	0.00	096.63	096.83	096.72	097.92
24 :	13.70	0.00	?UNDEF	?UNDEF	12.70	0.00	095.19	096.71	66.10	0.00	096.60	096.79	096.68	097.92

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DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.
1	1.40	0.00	103.60	?UNDEF	?UNDEF	?UNDEF	19.80	0.00	000.00	096.28	17.50	0.00	?UNDEF	?UNDEF
2	1.50	0.00	103.48	?UNDEF	?UNDEF	?UNDEF	19.70	0.00	000.00	096.33	17.10	0.00	?UNDEF	?UNDEF
3	1.40	0.00	103.34	?UNDEF	?UNDEF	?UNDEF	19.70	0.00	096.93	096.37	17.10	0.00	?UNDEF	?UNDEF
4	1.40	0.00	103.46	?UNDEF	?UNDEF	?UNDEF	19.90	0.00	096.96	096.40	16.90	0.00	?UNDEF	?UNDEF
5	1.40	0.00	103.62	?UNDEF	?UNDEF	?UNDEF	19.60	0.00	096.93	096.45	17.20	0.00	?UNDEF	?UNDEF
6	1.40	0.00	103.48	?UNDEF	?UNDEF	?UNDEF	19.40	0.00	?UNDEF	096.46	17.00	0.00	?UNDEF	?UNDEF
7	1.50	0.00	103.39	?UNDEF	?UNDEF	?UNDEF	20.10	0.00	?UNDEF	096.29	17.20	0.00	?UNDEF	?UNDEF
8	1.40	0.00	103.55	?UNDEF	?UNDEF	?UNDEF	24.90	0.00	?UNDEF	096.31	24.80	0.00	?UNDEF	?UNDEF
9	1.40	0.00	103.74	?UNDEF	?UNDEF	?UNDEF	25.40	0.00	?UNDEF	096.70	25.10	0.00	?UNDEF	?UNDEF
10	1.40	0.00	103.84	?UNDEF	?UNDEF	?UNDEF	25.00	0.00	?UNDEF	096.77	25.90	0.00	?UNDEF	?UNDEF
11	1.40	0.00	104.21	?UNDEF	?UNDEF	?UNDEF	25.00	0.00	?UNDEF	096.99	25.80	0.00	?UNDEF	?UNDEF
12	1.50	0.00	104.61	?UNDEF	?UNDEF	?UNDEF	25.10	0.00	?UNDEF	096.92	25.80	0.00	?UNDEF	?UNDEF
13	1.40	0.00	104.92	?UNDEF	?UNDEF	?UNDEF	25.10	0.00	?UNDEF	097.12	25.70	0.00	?UNDEF	?UNDEF
14	1.40	0.00	105.30	?UNDEF	?UNDEF	?UNDEF	25.00	0.00	?UNDEF	097.20	25.60	0.00	?UNDEF	?UNDEF
15	1.40	0.00	105.38	?UNDEF	?UNDEF	?UNDEF	25.50	0.00	?UNDEF	097.20	25.80	0.00	?UNDEF	?UNDEF
16	1.40	0.00	104.82	?UNDEF	?UNDEF	?UNDEF	25.10	0.00	?UNDEF	097.22	25.50	0.00	?UNDEF	?UNDEF
17	1.50	0.00	104.44	?UNDEF	?UNDEF	?UNDEF	25.30	0.00	?UNDEF	097.08	25.50	0.00	?UNDEF	?UNDEF
18	1.40	0.00	104.00	?UNDEF	?UNDEF	?UNDEF	30.00	0.00	*****	097.10	29.70	0.00	?UNDEF	?UNDEF
19	1.40	0.00	104.44	?UNDEF	?UNDEF	?UNDEF	25.80	0.00	097.10	097.06	30.10	0.00	?UNDEF	?UNDEF
20	1.40	0.00	103.85	?UNDEF	?UNDEF	?UNDEF	29.70	0.00	097.36	097.05	30.80	0.00	?UNDEF	?UNDEF
21	1.40	0.00	103.79	?UNDEF	?UNDEF	?UNDEF	26.20	0.00	097.22	097.09	30.10	0.00	?UNDEF	?UNDEF
22	1.40	0.00	103.70	?UNDEF	?UNDEF	?UNDEF	25.90	0.00	097.20	097.08	29.70	0.00	?UNDEF	?UNDEF
23	1.50	0.00	103.83	?UNDEF	?UNDEF	?UNDEF	21.10	0.00	097.15	097.26	22.40	0.00	?UNDEF	?UNDEF
24	1.40	0.00	103.98	?UNDEF	?UNDEF	?UNDEF	21.00	0.00	097.17	097.13	22.90	0.00	?UNDEF	?UNDEF
LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT
1	21.10	0.00	?UNDEF	?UNDEF	33.60	0.00	?UNDEF	?UNDEF	63.60	0.00	097.55	096.38	096.43	098.18
2	22.30	0.00	?UNDEF	?UNDEF	20.70	0.00	?UNDEF	?UNDEF	63.10	0.00	096.48	096.42	096.48	098.18
3	20.70	0.00	?UNDEF	?UNDEF	19.50	0.00	?UNDEF	?UNDEF	94.90	0.00	096.40	096.43	096.48	098.22
4	20.60	0.00	?UNDEF	?UNDEF	18.30	0.00	?UNDEF	?UNDEF	97.50	0.00	096.40	096.48	096.50	098.10
5	21.10	0.00	?UNDEF	?UNDEF	19.60	0.00	?UNDEF	?UNDEF	108.00	0.00	096.28	096.62	096.50	098.15
6	20.80	0.00	?UNDEF	?UNDEF	18.20	0.00	?UNDEF	?UNDEF	99.40	0.00	096.17	096.60	096.52	097.90
7	20.60	0.00	?UNDEF	?UNDEF	18.20	0.00	?UNDEF	?UNDEF	88.30	0.00	096.39	096.62	096.50	097.73
8	20.70	0.00	?UNDEF	?UNDEF	18.60	0.00	?UNDEF	?UNDEF	91.20	0.00	096.16	096.62	096.50	097.74
9	20.60	0.00	?UNDEF	?UNDEF	18.30	0.00	?UNDEF	?UNDEF	87.20	0.00	096.28	096.63	096.55	097.60
10	20.70	0.00	?UNDEF	?UNDEF	18.30	0.00	?UNDEF	?UNDEF	80.80	0.00	096.21	096.69	096.58	097.79
11	21.00	0.00	?UNDEF	?UNDEF	18.30	0.00	?UNDEF	?UNDEF	80.00	0.00	096.26	096.59	096.74	097.98
12	20.70	0.00	?UNDEF	?UNDEF	18.40	0.00	?UNDEF	?UNDEF	79.70	0.00	096.45	096.81	096.84	098.07
13	26.00	0.00	?UNDEF	?UNDEF	25.30	0.00	?UNDEF	?UNDEF	74.10	0.00	096.52	096.98	097.01	098.25
14	26.30	0.00	?UNDEF	?UNDEF	25.20	0.00	?UNDEF	?UNDEF	74.80	0.00	096.68	096.90	097.01	098.40
15	26.40	0.00	?UNDEF	?UNDEF	28.20	0.00	?UNDEF	?UNDEF	75.00	0.00	097.12	097.08	097.07	098.44
16	26.50	0.00	?UNDEF	?UNDEF	25.10	0.00	?UNDEF	?UNDEF	75.20	0.00	097.13	097.07	097.07	098.41
17	26.60	0.00	?UNDEF	?UNDEF	25.80	0.00	?UNDEF	?UNDEF	75.40	0.00	097.14	097.07	097.10	098.44
18	29.90	0.00	?UNDEF	?UNDEF	30.40	0.00	?UNDEF	?UNDEF	84.10	0.00	096.88	097.08	097.10	098.44
19	31.70	0.00	?UNDEF	?UNDEF	31.10	0.00	?UNDEF	?UNDEF	84.90	0.00	096.61	097.11	097.15	098.50
20	30.10	0.00	?UNDEF	?UNDEF	30.40	0.00	?UNDEF	?UNDEF	85.00	0.00	096.65	097.28	097.15	098.46
21	30.00	0.00	?UNDEF	?UNDEF	30.30	0.00	?UNDEF	?UNDEF	79.80	0.00	096.68	097.25	097.19	098.40
22	31.50	0.00	?UNDEF	?UNDEF	30.20	0.00	?UNDEF	?UNDEF	72.20	0.00	096.74	097.32	097.11	098.41
23	27.80	0.00	?UNDEF	?UNDEF	29.90	0.00	?UNDEF	?UNDEF	64.80	0.00	096.59	096.96	097.13	098.45
24	24.30	0.00	?UNDEF	?UNDEF	25.10	0.00	?UNDEF	?UNDEF	60.10	0.00	096.65	096.93	097.11	098.45

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	DWRSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.40	0.00	103.54	?UNDEF	?UNDEF	?UNDEF	14.10	0.00	?UNDEF	095.61	17.10	0.00	?UNDEF	?UNDEF
2	1.40	0.00	103.39	?UNDEF	?UNDEF	?UNDEF	14.30	0.00	095.50	095.60	15.70	0.00	?UNDEF	?UNDEF
3	1.50	0.00	103.20	?UNDEF	?UNDEF	?UNDEF	15.80	0.00	095.50	095.85	14.30	0.00	?UNDEF	?UNDEF
4	1.40	0.00	103.19	?UNDEF	?UNDEF	?UNDEF	14.10	0.00	095.48	096.09	15.90	0.00	?UNDEF	?UNDEF
5	1.40	0.00	103.13	?UNDEF	?UNDEF	?UNDEF	14.10	0.00	095.42	095.95	14.10	0.00	?UNDEF	?UNDEF
6	1.40	0.00	102.97	?UNDEF	?UNDEF	?UNDEF	14.20	0.00	095.40	095.83	17.40	0.00	?UNDEF	?UNDEF
7	1.40	0.00	103.10	?UNDEF	?UNDEF	?UNDEF	21.10	0.00	095.22	095.78	20.90	0.00	?UNDEF	?UNDEF
8	1.50	0.00	103.27	?UNDEF	?UNDEF	?UNDEF	24.70	0.00	095.22	095.75	22.00	0.00	?UNDEF	?UNDEF
9	1.40	0.00	103.86	?UNDEF	?UNDEF	?UNDEF	24.70	0.00	095.38	095.88	22.40	0.00	?UNDEF	?UNDEF
10	1.40	0.00	104.02	?UNDEF	?UNDEF	?UNDEF	24.80	0.00	?UNDEF	095.88	22.00	0.00	?UNDEF	?UNDEF
11	1.40	0.00	104.37	?UNDEF	?UNDEF	?UNDEF	24.80	0.00	?UNDEF	095.90	22.10	0.00	?UNDEF	?UNDEF
12	1.40	0.00	104.56	?UNDEF	?UNDEF	?UNDEF	25.20	0.00	?UNDEF	095.97	22.20	0.00	?UNDEF	?UNDEF
13	1.40	0.00	104.64	?UNDEF	?UNDEF	?UNDEF	24.70	0.00	?UNDEF	096.07	22.20	0.00	?UNDEF	?UNDEF
14	1.40	0.00	104.78	?UNDEF	?UNDEF	?UNDEF	25.00	0.00	?UNDEF	096.09	22.60	0.00	?UNDEF	?UNDEF
15	1.40	0.00	105.12	?UNDEF	?UNDEF	?UNDEF	25.00	0.00	?UNDEF	096.14	23.70	0.00	?UNDEF	?UNDEF
16	1.40	0.00	104.74	?UNDEF	?UNDEF	?UNDEF	25.00	0.00	?UNDEF	096.18	22.20	0.00	?UNDEF	?UNDEF
17	1.40	0.00	104.16	?UNDEF	?UNDEF	?UNDEF	25.70	0.00	?UNDEF	096.07	22.60	0.00	?UNDEF	?UNDEF
18	1.40	0.00	103.72	?UNDEF	?UNDEF	?UNDEF	28.50	0.00	?UNDEF	?UNDEF	27.90	0.00	?UNDEF	?UNDEF
19	1.40	0.00	104.16	?UNDEF	?UNDEF	?UNDEF	30.80	0.00	?UNDEF	?UNDEF	30.00	0.00	?UNDEF	?UNDEF
20	1.40	0.00	103.72	?UNDEF	?UNDEF	?UNDEF	41.30	0.00	?UNDEF	?UNDEF	37.70	0.00	?UNDEF	?UNDEF
21	1.50	0.00	103.72	?UNDEF	?UNDEF	?UNDEF	36.10	0.00	?UNDEF	?UNDEF	37.70	0.00	?UNDEF	?UNDEF
22	1.40	0.00	103.46	?UNDEF	?UNDEF	?UNDEF	30.30	0.00	096.38	096.11	35.40	0.00	?UNDEF	?UNDEF
23	1.40	0.00	103.61	?UNDEF	?UNDEF	?UNDEF	25.10	0.00	?UNDEF	096.12	31.30	0.00	?UNDEF	?UNDEF
24	1.40	0.00	103.62	?UNDEF	?UNDEF	?UNDEF	19.90	0.00	096.47	096.31	27.10	0.00	?UNDEF	?UNDEF

HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO	
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT
1	20.10	0.00	?UNDEF	?UNDEF	20.70	0.00	?UNDEF	?UNDEF	67.70	0.00	096.10	096.40	096.62	098.12
2	17.10	0.00	?UNDEF	?UNDEF	18.30	0.00	?UNDEF	?UNDEF	68.80	0.00	096.07	096.39	096.44	098.12
3	16.90	0.00	?UNDEF	?UNDEF	18.20	0.00	?UNDEF	?UNDEF	69.10	0.00	095.93	096.26	096.41	097.97
4	15.80	0.00	?UNDEF	?UNDEF	18.20	0.00	?UNDEF	?UNDEF	70.30	0.00	095.90	096.19	096.40	097.67
5	15.60	0.00	?UNDEF	?UNDEF	18.50	0.00	?UNDEF	?UNDEF	88.50	0.00	095.86	096.06	096.32	097.54
6	15.70	0.00	?UNDEF	?UNDEF	18.20	0.00	?UNDEF	?UNDEF	90.10	0.00	095.83	095.97	096.44	097.34
7	18.00	0.00	?UNDEF	?UNDEF	18.20	0.00	?UNDEF	?UNDEF	90.60	0.00	095.78	095.80	096.26	097.15
8	19.00	0.00	?UNDEF	?UNDEF	18.30	0.00	?UNDEF	?UNDEF	86.50	0.00	095.86	095.88	096.06	096.95
9	22.80	0.00	?UNDEF	?UNDEF	20.90	0.00	?UNDEF	?UNDEF	85.60	0.00	095.84	095.90	096.03	096.99
10	20.80	0.00	?UNDEF	?UNDEF	19.90	0.00	?UNDEF	?UNDEF	84.70	0.00	096.22	095.88	096.16	096.94
11	22.40	0.00	?UNDEF	?UNDEF	19.50	0.00	?UNDEF	?UNDEF	78.10	0.00	096.26	095.87	096.33	097.10
12	21.00	0.00	?UNDEF	?UNDEF	19.50	0.00	?UNDEF	?UNDEF	70.00	0.00	096.61	096.23	096.43	097.47
13	21.50	0.00	?UNDEF	?UNDEF	21.60	0.00	?UNDEF	?UNDEF	66.70	0.00	096.92	096.42	096.48	097.62
14	21.60	0.00	?UNDEF	?UNDEF	20.20	0.00	?UNDEF	?UNDEF	64.90	0.00	097.24	096.48	096.67	097.92
15	21.60	0.00	?UNDEF	?UNDEF	22.10	0.00	?UNDEF	?UNDEF	63.60	0.00	098.17	096.56	096.71	098.10
16	22.70	0.00	?UNDEF	?UNDEF	21.70	0.00	?UNDEF	?UNDEF	63.70	0.00	097.96	096.74	096.74	098.27
17	21.20	0.00	?UNDEF	?UNDEF	19.50	0.00	?UNDEF	?UNDEF	66.10	0.00	097.47	096.88	096.63	098.33
18	27.10	0.00	?UNDEF	?UNDEF	19.50	0.00	?UNDEF	?UNDEF	62.10	0.00	096.91	096.73	096.48	098.34
19	29.10	0.00	?UNDEF	?UNDEF	26.30	0.00	?UNDEF	?UNDEF	59.90	0.00	096.40	096.54	096.49	098.47
20	41.10	0.00	?UNDEF	?UNDEF	35.60	0.00	?UNDEF	?UNDEF	60.50	0.00	096.27	096.46	096.48	098.48
21	40.50	0.00	?UNDEF	?UNDEF	39.60	0.00	?UNDEF	?UNDEF	59.90	0.00	096.25	096.43	096.33	098.42
22	42.80	0.00	?UNDEF	?UNDEF	39.00	0.00	?UNDEF	?UNDEF	62.70	0.00	096.25	096.16	096.32	098.47
23	40.50	0.00	?UNDEF	?UNDEF	39.00	0.00	?UNDEF	?UNDEF	60.70	0.00	096.29	096.33	096.34	098.39
24	34.70	0.00	?UNDEF	?UNDEF	38.80	0.00	?UNDEF	?UNDEF	60.50	0.00	097.10	096.41	096.42	098.39

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WALLA WALLA DISTRICT HYDRO PROJECTS
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	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR :	TOTAL DISCH. KCFS	SPIILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPIILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPIILL KCFS	GAS FB	%SAT. TAILW.
1 :	1.40	0.00	103.92	?UNDEF	?UNDEF	?UNDEF	16.00	0.00	095.79	096.31	15.70	0.00	?UNDEF	?UNDEF
2 :	1.40	0.00	?UNDEF	?UNDEF	?UNDEF	?UNDEF	14.10	0.00	095.83	096.44	14.70	0.00	?UNDEF	?UNDEF
3 :	1.40	0.00	?UNDEF	?UNDEF	?UNDEF	?UNDEF	15.50	0.00	095.84	096.30	15.20	0.00	?UNDEF	?UNDEF
4 :	1.40	0.00	000.00	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	095.79	096.58	15.20	0.00	?UNDEF	?UNDEF
5 :	1.50	0.00	103.57	?UNDEF	?UNDEF	?UNDEF	13.80	0.00	095.77	096.52	16.60	0.00	?UNDEF	?UNDEF
6 :	1.40	0.00	?UNDEF	?UNDEF	?UNDEF	?UNDEF	20.30	0.00	095.91	?UNDEF	28.60	0.00	?UNDEF	?UNDEF
7 :	1.40	0.00	?UNDEF	?UNDEF	?UNDEF	?UNDEF	26.90	0.00	095.70	?UNDEF	36.70	0.00	?UNDEF	?UNDEF
8 :	1.40	0.00	000.00	?UNDEF	?UNDEF	?UNDEF	30.60	0.00	095.65	?UNDEF	34.00	0.00	?UNDEF	?UNDEF
9 :	1.50	0.00	104.45	?UNDEF	?UNDEF	?UNDEF	31.10	0.00	095.56	?UNDEF	31.70	0.00	?UNDEF	?UNDEF
10 :	1.40	0.00	104.70	?UNDEF	?UNDEF	?UNDEF	32.00	0.00	?UNDEF	?UNDEF	31.90	0.00	?UNDEF	?UNDEF
11 :	1.40	0.00	104.83	?UNDEF	?UNDEF	?UNDEF	35.10	0.00	?UNDEF	?UNDEF	34.30	0.00	?UNDEF	?UNDEF
12 :	1.40	0.00	104.97	?UNDEF	?UNDEF	?UNDEF	35.50	0.00	?UNDEF	?UNDEF	35.50	0.00	?UNDEF	?UNDEF
13 :	1.40	0.00	104.94	?UNDEF	?UNDEF	?UNDEF	35.50	0.00	?UNDEF	?UNDEF	34.70	0.00	?UNDEF	?UNDEF
14 :	1.50	0.00	104.82	?UNDEF	?UNDEF	?UNDEF	35.60	0.00	?UNDEF	096.06	34.70	0.00	?UNDEF	?UNDEF
15 :	1.40	0.00	*****	?UNDEF	?UNDEF	?UNDEF	36.30	0.00	?UNDEF	095.89	34.60	0.00	?UNDEF	?UNDEF
16 :	1.40	0.00	104.57	?UNDEF	?UNDEF	?UNDEF	35.60	0.00	?UNDEF	095.89	34.60	0.00	?UNDEF	?UNDEF
17 :	1.40	0.00	104.27	?UNDEF	?UNDEF	?UNDEF	35.50	0.00	?UNDEF	095.85	34.80	0.00	?UNDEF	?UNDEF
18 :	1.50	0.00	104.14	?UNDEF	?UNDEF	?UNDEF	30.00	0.00	?UNDEF	095.85	37.00	0.00	?UNDEF	?UNDEF
19 :	1.40	0.00	104.27	?UNDEF	?UNDEF	?UNDEF	31.20	0.00	?UNDEF	095.73	34.50	0.00	?UNDEF	?UNDEF
20 :	1.40	0.00	103.46	?UNDEF	?UNDEF	?UNDEF	28.20	0.00	?UNDEF	095.70	29.90	0.00	?UNDEF	?UNDEF
21 :	1.40	0.00	103.53	?UNDEF	?UNDEF	?UNDEF	21.30	0.00	?UNDEF	095.95	25.60	0.00	?UNDEF	?UNDEF
22 :	1.40	0.00	103.51	?UNDEF	?UNDEF	?UNDEF	16.00	0.00	?UNDEF	096.46	19.70	0.00	?UNDEF	?UNDEF
23 :	1.40	0.00	103.49	?UNDEF	?UNDEF	?UNDEF	14.10	0.00	?UNDEF	096.29	17.80	0.00	?UNDEF	?UNDEF
24 :	1.40	0.00	103.56	?UNDEF	?UNDEF	?UNDEF	14.10	0.00	?UNDEF	095.78	17.20	0.00	?UNDEF	?UNDEF

	LOWER MONUMENTAL			ICE HARBOR			MCNARY			PASCO				
HOUR :	TOTAL DISCH KCFS	SPIILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPIILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPIILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1 :	17.40	0.00	?UNDEF	?UNDEF	22.90	0.00	?UNDEF	?UNDEF	67.70	0.00	096.94	097.28	097.06	?UNDEF
2 :	15.50	0.00	?UNDEF	?UNDEF	19.00	0.00	?UNDEF	?UNDEF	61.50	0.00	096.92	097.24	097.01	*****
3 :	15.90	0.00	?UNDEF	?UNDEF	19.30	0.00	?UNDEF	?UNDEF	63.70	0.00	096.93	097.11	097.17	163.88
4 :	16.00	0.00	?UNDEF	?UNDEF	19.10	0.00	?UNDEF	?UNDEF	66.40	0.00	096.92	097.11	097.15	974.83
5 :	16.20	0.00	?UNDEF	?UNDEF	19.10	0.00	?UNDEF	?UNDEF	82.20	0.00	096.92	097.11	097.26	097.02
6 :	19.30	0.00	?UNDEF	?UNDEF	19.00	0.00	?UNDEF	?UNDEF	100.80	0.00	096.86	097.06	097.35	096.97
7 :	29.60	0.00	?UNDEF	?UNDEF	19.30	0.00	?UNDEF	?UNDEF	120.90	0.00	096.78	097.09	097.28	096.89
8 :	31.70	0.00	?UNDEF	?UNDEF	26.20	0.00	?UNDEF	?UNDEF	107.00	0.00	096.73	097.04	097.11	096.86
9 :	32.00	0.00	?UNDEF	?UNDEF	26.70	0.00	?UNDEF	?UNDEF	105.20	0.00	096.83	097.12	097.03	*****
10 :	32.00	0.00	?UNDEF	?UNDEF	29.80	0.00	?UNDEF	?UNDEF	100.80	0.00	096.68	097.24	097.04	096.94
11 :	36.10	0.00	?UNDEF	?UNDEF	34.60	0.00	?UNDEF	?UNDEF	98.70	0.00	096.82	097.29	097.03	097.20
12 :	35.20	0.00	?UNDEF	?UNDEF	36.40	0.00	?UNDEF	?UNDEF	100.00	0.00	096.93	097.55	097.02	097.50
13 :	34.50	0.00	?UNDEF	?UNDEF	35.60	0.00	?UNDEF	?UNDEF	100.10	0.00	097.16	097.71	097.12	097.82
14 :	34.70	0.00	?UNDEF	?UNDEF	36.30	0.00	?UNDEF	?UNDEF	100.70	0.00	097.66	097.99	097.11	098.06
15 :	37.30	0.00	?UNDEF	?UNDEF	34.80	0.00	?UNDEF	?UNDEF	100.90	0.00	097.81	097.95	097.10	098.32
16 :	36.10	0.00	?UNDEF	?UNDEF	34.70	0.00	?UNDEF	?UNDEF	101.60	0.00	097.90	098.11	096.96	098.57
17 :	35.70	0.00	?UNDEF	?UNDEF	34.60	0.00	?UNDEF	?UNDEF	102.30	0.00	097.61	097.84	096.98	098.69
18 :	38.00	0.00	?UNDEF	?UNDEF	39.70	0.00	?UNDEF	?UNDEF	102.40	0.00	097.47	097.50	096.80	098.76
19 :	38.70	0.00	?UNDEF	?UNDEF	38.90	0.00	?UNDEF	?UNDEF	99.50	0.00	097.14	097.49	096.73	098.67
20 :	34.70	0.00	?UNDEF	?UNDEF	34.80	0.00	?UNDEF	?UNDEF	90.20	0.00	097.13	097.40	096.58	098.68
21 :	29.50	0.00	?UNDEF	?UNDEF	29.50	0.00	?UNDEF	?UNDEF	88.10	0.00	096.68	097.27	096.66	098.60
22 :	29.00	0.00	?UNDEF	?UNDEF	29.10	0.00	?UNDEF	?UNDEF	68.90	0.00	096.26	097.08	096.48	098.31
23 :	28.70	0.00	?UNDEF	?UNDEF	29.20	0.00	?UNDEF	?UNDEF	69.90	0.00	095.98	097.07	096.46	098.31
24 :	21.30	0.00	?UNDEF	?UNDEF	23.20	0.00	?UNDEF	?UNDEF	68.20	0.00	096.10	096.54	096.59	098.31

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WALLA WALLA DISTRICT HYDRO PROJECTS
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HOUR	DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.		
1	1.40	0.00	103.88	?UNDEF	?UNDEF	?UNDEF	13.20	0.00	095.35	096.29	13.70	0.00	?UNDEF	?UNDEF		
2	1.40	0.00	103.87	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	095.32	096.63	14.10	0.00	?UNDEF	?UNDEF		
3	1.40	0.00	103.84	?UNDEF	?UNDEF	?UNDEF	13.40	0.00	095.42	096.48	13.90	0.00	?UNDEF	?UNDEF		
4	1.40	0.00	103.68	?UNDEF	?UNDEF	?UNDEF	13.60	0.00	095.24	096.47	13.90	0.00	?UNDEF	?UNDEF		
5	1.50	0.00	103.63	?UNDEF	?UNDEF	?UNDEF	13.90	0.00	094.99	096.34	13.80	0.00	?UNDEF	?UNDEF		
6	1.40	0.00	103.61	?UNDEF	?UNDEF	?UNDEF	19.90	0.00	094.80	096.34	13.90	0.00	?UNDEF	?UNDEF		
7	1.40	0.00	103.79	?UNDEF	?UNDEF	?UNDEF	20.90	0.00	094.49	096.25	22.20	0.00	?UNDEF	?UNDEF		
8	1.40	0.00	103.91	?UNDEF	?UNDEF	?UNDEF	24.60	0.00	094.96	096.20	22.30	0.00	?UNDEF	?UNDEF		
9	1.40	0.00	?UNDEF	?UNDEF	?UNDEF	?UNDEF	25.80	0.00	?UNDEF	096.02	20.80	0.00	?UNDEF	?UNDEF		
10	1.50	0.00	?UNDEF	?UNDEF	?UNDEF	?UNDEF	25.40	0.00	095.45	096.26	20.80	0.00	?UNDEF	?UNDEF		
11	1.40	0.00	?UNDEF	?UNDEF	?UNDEF	?UNDEF	25.30	0.00	*****	096.37	22.30	0.00	?UNDEF	?UNDEF		
12	1.40	0.00	004.30	?UNDEF	?UNDEF	?UNDEF	27.50	0.00	000.00	097.18	21.20	0.00	?UNDEF	?UNDEF		
13	1.40	0.00	105.39	?UNDEF	?UNDEF	?UNDEF	25.30	0.00	006.45	097.21	19.40	0.00	?UNDEF	?UNDEF		
14	1.40	0.00	?UNDEF	?UNDEF	?UNDEF	?UNDEF	25.40	0.00	095.76	?UNDEF	19.20	0.00	?UNDEF	?UNDEF		
15	1.50	0.00	000.00	?UNDEF	?UNDEF	?UNDEF	22.20	0.00	095.76	?UNDEF	19.30	0.00	?UNDEF	?UNDEF		
16	1.40	0.00	000.00	?UNDEF	?UNDEF	?UNDEF	19.70	0.00	?UNDEF	?UNDEF	19.20	0.00	?UNDEF	?UNDEF		
17	1.40	0.00	104.66	?UNDEF	?UNDEF	?UNDEF	19.60	0.00	095.74	?UNDEF	19.70	0.00	?UNDEF	?UNDEF		
18	1.40	0.00	?UNDEF	?UNDEF	?UNDEF	?UNDEF	20.00	0.00	?UNDEF	096.35	20.80	0.00	?UNDEF	?UNDEF		
19	1.50	0.00	104.66	?UNDEF	?UNDEF	?UNDEF	19.60	0.00	?UNDEF	096.33	19.60	0.00	?UNDEF	?UNDEF		
20	1.40	0.00	001.88	?UNDEF	?UNDEF	?UNDEF	26.90	0.00	?UNDEF	096.32	27.80	0.00	?UNDEF	?UNDEF		
21	1.40	0.00	103.64	?UNDEF	?UNDEF	?UNDEF	32.20	0.00	?UNDEF	096.17	33.20	0.00	?UNDEF	?UNDEF		
22	1.40	0.00	?UNDEF	?UNDEF	?UNDEF	?UNDEF	33.90	0.00	095.77	096.20	35.00	0.00	?UNDEF	?UNDEF		
23	1.40	0.00	000.00	?UNDEF	?UNDEF	?UNDEF	18.40	0.00	095.77	096.30	20.60	0.00	?UNDEF	?UNDEF		
24	1.50	0.00	000.00	?UNDEF	?UNDEF	?UNDEF	16.70	0.00	095.81	096.17	20.90	0.00	?UNDEF	?UNDEF		
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT		
1	13.80	0.00	?UNDEF	?UNDEF	14.20	0.00	095.88	097.26	69.50	0.00	097.44	097.62	097.27	?UNDEF		
2	13.60	0.00	?UNDEF	?UNDEF	13.00	0.00	095.82	097.10	69.00	0.00	097.44	097.54	097.15	?UNDEF		
3	15.20	0.00	?UNDEF	?UNDEF	12.80	0.00	095.79	098.30	69.30	0.00	097.45	097.38	097.13	?UNDEF		
4	14.00	0.00	?UNDEF	?UNDEF	12.60	0.00	095.80	097.91	68.80	0.00	097.39	097.24	097.11	?UNDEF		
5	13.70	0.00	?UNDEF	?UNDEF	12.70	0.00	095.62	097.59	91.30	0.00	097.36	097.31	097.21	?UNDEF		
6	15.20	0.00	?UNDEF	?UNDEF	12.70	0.00	095.73	097.81	93.90	0.00	097.50	097.28	097.18	?UNDEF		
7	13.80	0.00	?UNDEF	?UNDEF	12.70	0.00	095.69	098.21	99.70	0.00	097.31	097.13	097.14	?UNDEF		
8	14.90	0.00	?UNDEF	?UNDEF	14.40	0.00	095.61	097.61	99.90	0.00	097.25	097.16	096.94	?UNDEF		
9	15.40	0.00	?UNDEF	?UNDEF	12.60	0.00	095.61	097.57	101.40	0.00	097.49	097.12	097.04	?UNDEF		
10	15.10	0.00	?UNDEF	?UNDEF	12.60	0.00	095.43	097.57	103.60	0.00	097.30	097.28	097.04	?UNDEF		
11	15.20	0.00	?UNDEF	?UNDEF	14.10	0.00	095.44	097.73	100.60	0.00	097.33	097.22	097.14	?UNDEF		
12	16.80	0.00	?UNDEF	?UNDEF	12.80	0.00	095.45	098.45	98.40	0.00	097.47	097.40	097.31	?UNDEF		
13	19.50	0.00	?UNDEF	?UNDEF	20.60	0.00	?UNDEF	?UNDEF	90.40	0.00	097.51	097.43	097.49	?UNDEF		
14	21.50	0.00	?UNDEF	?UNDEF	19.80	0.00	?UNDEF	?UNDEF	89.70	0.00	097.51	097.44	097.62	?UNDEF		
15	20.20	0.00	?UNDEF	?UNDEF	20.80	0.00	?UNDEF	?UNDEF	80.70	0.00	097.54	097.47	097.51	?UNDEF		
16	20.00	0.00	?UNDEF	?UNDEF	19.40	0.00	?UNDEF	?UNDEF	91.20	0.00	097.94	097.47	097.53	?UNDEF		
17	19.90	0.00	?UNDEF	?UNDEF	19.40	0.00	?UNDEF	?UNDEF	94.30	0.00	097.79	097.33	097.40	?UNDEF		
18	19.90	0.00	?UNDEF	?UNDEF	20.90	0.00	?UNDEF	?UNDEF	94.80	0.00	097.80	097.35	097.39	?UNDEF		
19	23.40	0.00	?UNDEF	?UNDEF	22.10	0.00	?UNDEF	?UNDEF	89.30	0.00	097.53	097.47	097.39	?UNDEF		
20	27.40	0.00	?UNDEF	?UNDEF	25.60	0.00	?UNDEF	?UNDEF	95.80	0.00	097.41	097.45	097.23	?UNDEF		
21	33.40	0.00	?UNDEF	?UNDEF	34.50	0.00	?UNDEF	?UNDEF	95.60	0.00	097.26	097.28	097.23	?UNDEF		
22	35.50	0.00	?UNDEF	?UNDEF	35.90	0.00	?UNDEF	?UNDEF	93.90	0.00	097.22	097.27	097.01	?UNDEF		
23	27.60	0.00	?UNDEF	?UNDEF	30.70	0.00	?UNDEF	?UNDEF	78.20	0.00	097.09	097.26	097.06	?UNDEF		
24	26.90	0.00	?UNDEF	?UNDEF	30.10	0.00	?UNDEF	?UNDEF	68.30	0.00	097.08	097.26	097.02	?UNDEF		

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	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.40	0.00	104.27	?UNDEF	?UNDEF	?UNDEF	20.00	0.00	096.41	097.48	19.50	0.00	?UNDEF	?UNDEF
2	1.40	0.00	104.24	?UNDEF	?UNDEF	?UNDEF	16.90	0.00	096.71	097.33	15.00	0.00	?UNDEF	?UNDEF
3	1.40	0.00	104.31	?UNDEF	?UNDEF	?UNDEF	15.40	0.00	096.18	097.63	15.50	0.00	?UNDEF	?UNDEF
4	1.40	0.00	104.28	?UNDEF	?UNDEF	?UNDEF	15.80	0.00	095.91	097.67	15.80	0.00	?UNDEF	?UNDEF
5	1.50	0.00	104.27	?UNDEF	?UNDEF	?UNDEF	16.70	0.00	095.66	097.50	16.70	0.00	?UNDEF	?UNDEF
6	1.40	0.00	104.46	?UNDEF	?UNDEF	?UNDEF	18.80	0.00	095.65	097.53	18.40	0.00	?UNDEF	?UNDEF
7	1.40	0.00	104.46	?UNDEF	?UNDEF	?UNDEF	20.50	0.00	096.23	097.42	20.90	0.00	?UNDEF	?UNDEF
8	1.40	0.00	104.61	?UNDEF	?UNDEF	?UNDEF	21.10	0.00	096.52	097.22	23.10	0.00	?UNDEF	?UNDEF
9	1.50	0.00	104.63	?UNDEF	?UNDEF	?UNDEF	21.00	0.00	096.27	097.10	26.30	0.00	?UNDEF	?UNDEF
10	1.40	0.00	104.83	?UNDEF	?UNDEF	?UNDEF	21.10	0.00	096.25	097.06	25.00	0.00	?UNDEF	?UNDEF
11	1.40	0.00	105.03	?UNDEF	?UNDEF	?UNDEF	21.50	0.00	096.10	097.04	24.60	0.00	?UNDEF	?UNDEF
12	1.40	0.00	104.93	?UNDEF	?UNDEF	?UNDEF	22.80	0.00	096.16	097.32	25.00	0.00	?UNDEF	?UNDEF
13	1.40	0.00	104.73	?UNDEF	?UNDEF	?UNDEF	21.20	0.00	095.93	097.04	24.70	0.00	?UNDEF	?UNDEF
14	1.50	0.00	104.69	?UNDEF	?UNDEF	?UNDEF	22.70	0.00	096.21	097.15	24.90	0.00	?UNDEF	?UNDEF
15	1.40	0.00	104.53	?UNDEF	?UNDEF	?UNDEF	21.10	0.00	096.13	097.04	25.00	0.00	?UNDEF	?UNDEF
16	1.40	0.00	104.50	?UNDEF	?UNDEF	?UNDEF	21.40	0.00	096.01	097.07	24.90	0.00	?UNDEF	?UNDEF
17	1.40	0.00	104.25	?UNDEF	?UNDEF	?UNDEF	21.10	0.00	096.22	096.87	25.30	0.00	?UNDEF	?UNDEF
18	1.50	0.00	104.24	?UNDEF	?UNDEF	?UNDEF	21.10	0.00	096.15	096.77	24.60	0.00	?UNDEF	?UNDEF
19	1.40	0.00	104.25	?UNDEF	?UNDEF	?UNDEF	16.80	0.00	095.97	096.59	24.80	0.00	?UNDEF	?UNDEF
20	1.40	0.00	103.96	?UNDEF	?UNDEF	?UNDEF	16.60	0.00	095.89	096.54	24.80	0.00	?UNDEF	?UNDEF
21	1.40	0.00	104.01	?UNDEF	?UNDEF	?UNDEF	16.90	0.00	095.91	096.42	26.90	0.00	?UNDEF	?UNDEF
22	1.40	0.00	103.94	?UNDEF	?UNDEF	?UNDEF	16.50	0.00	095.75	096.12	24.70	0.00	?UNDEF	?UNDEF
23	1.50	0.00	104.03	?UNDEF	?UNDEF	?UNDEF	14.20	0.00	095.58	096.22	16.70	0.00	?UNDEF	?UNDEF
24	1.40	0.00	103.92	?UNDEF	?UNDEF	?UNDEF	15.10	0.00	095.54	096.15	13.80	0.00	?UNDEF	?UNDEF
	LOWER MONUMENTAL			ICE HARBOR			MCNARY			PASCO				
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	18.80	0.00	?UNDEF	000.00	18.50	0.00	096.78	098.20	58.40	0.00	098.69	098.47	098.67	098.28
2	14.70	0.00	?UNDEF	000.00	18.20	0.00	096.78	098.24	57.00	0.00	098.67	098.59	098.67	098.16
3	15.40	0.00	?UNDEF	000.00	19.70	0.00	096.86	098.33	60.20	0.00	098.79	098.56	098.70	098.32
4	15.60	0.00	?UNDEF	000.00	18.20	0.00	096.94	098.36	60.60	0.00	098.67	098.64	098.70	098.31
5	16.70	0.00	?UNDEF	000.00	18.10	0.00	096.75	098.29	80.60	0.00	098.55	098.59	098.79	098.13
6	16.70	0.00	?UNDEF	000.00	18.20	0.00	096.75	098.74	101.90	0.00	098.55	098.59	098.79	098.15
7	17.10	0.00	?UNDEF	000.00	18.60	0.00	096.74	098.53	100.70	0.00	098.57	098.55	098.58	098.09
8	26.20	0.00	?UNDEF	000.00	26.50	0.00	096.64	098.29	97.80	0.00	098.63	098.44	098.45	097.83
9	29.80	0.00	?UNDEF	?UNDEF	29.20	0.00	096.58	098.26	97.20	0.00	098.49	098.31	098.36	097.75
10	30.40	0.00	?UNDEF	?UNDEF	29.10	0.00	096.47	098.26	79.50	0.00	098.42	098.31	098.36	097.83
11	30.20	0.00	?UNDEF	?UNDEF	29.20	0.00	096.43	099.02	89.30	0.00	098.30	098.09	098.38	097.89
12	31.40	0.00	?UNDEF	?UNDEF	32.10	0.00	096.41	098.36	98.90	0.00	098.36	098.14	098.32	098.19
13	33.10	0.00	?UNDEF	?UNDEF	31.30	0.00	096.61	098.30	88.80	0.00	098.23	098.31	098.41	?UNDEF
14	31.70	0.00	?UNDEF	?UNDEF	30.80	0.00	096.51	098.35	87.90	0.00	098.31	098.36	098.39	?UNDEF
15	31.60	0.00	?UNDEF	?UNDEF	30.90	0.00	096.45	097.97	88.70	0.00	098.28	098.44	098.20	?UNDEF
16	31.60	0.00	?UNDEF	?UNDEF	31.10	0.00	096.43	097.93	90.30	0.00	098.36	098.38	098.16	?UNDEF
17	32.20	0.00	?UNDEF	?UNDEF	32.70	0.00	096.28	097.75	98.80	0.00	098.35	098.36	098.10	?UNDEF
18	33.20	0.00	?UNDEF	?UNDEF	31.20	0.00	096.29	097.65	107.00	0.00	098.11	098.16	098.01	?UNDEF
19	31.80	0.00	?UNDEF	?UNDEF	31.30	0.00	096.16	097.58	107.10	0.00	098.02	098.25	097.81	?UNDEF
20	27.30	0.00	?UNDEF	?UNDEF	31.80	0.00	096.17	097.65	106.90	0.00	098.04	098.07	097.81	?UNDEF
21	27.10	0.00	?UNDEF	?UNDEF	32.90	0.00	096.18	097.47	108.00	0.00	097.88	097.94	097.59	?UNDEF
22	27.40	0.00	?UNDEF	?UNDEF	32.70	0.00	095.98	097.39	108.60	0.00	097.72	097.78	097.55	?UNDEF
23	14.80	0.00	?UNDEF	?UNDEF	14.40	0.00	095.97	097.36	103.00	0.00	097.70	097.63	097.47	?UNDEF
24	13.60	0.00	?UNDEF	?UNDEF	13.00	0.00	095.73	097.54	90.60	0.00	097.48	097.55	097.45	?UNDEF

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HOUR	DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	
1	1.50	0.00	103.86	?UNDEF	?UNDEF	?UNDEF	15.30	0.00	095.58	096.34	14.10	0.00	?UNDEF	?UNDEF		
2	1.40	0.00	103.82	?UNDEF	?UNDEF	?UNDEF	13.70	0.00	095.80	096.71	13.40	0.00	?UNDEF	?UNDEF		
3	1.40	0.00	103.77	?UNDEF	?UNDEF	?UNDEF	15.80	0.00	096.03	097.64	14.50	0.00	?UNDEF	?UNDEF		
4	1.40	0.00	103.86	?UNDEF	?UNDEF	?UNDEF	17.80	0.00	096.01	097.35	17.00	0.00	?UNDEF	?UNDEF		
5	1.40	0.00	103.81	?UNDEF	?UNDEF	?UNDEF	16.40	0.00	096.07	097.42	16.20	0.00	?UNDEF	?UNDEF		
6	1.50	0.00	103.95	?UNDEF	?UNDEF	?UNDEF	17.90	0.00	096.06	097.14	17.90	0.00	?UNDEF	?UNDEF		
7	1.40	0.00	103.80	?UNDEF	?UNDEF	?UNDEF	17.30	0.00	096.22	097.04	18.10	0.00	?UNDEF	?UNDEF		
8	1.40	0.00	104.00	?UNDEF	?UNDEF	?UNDEF	17.10	0.00	096.44	097.14	19.60	0.00	?UNDEF	?UNDEF		
9	1.40	0.00	104.51	?UNDEF	?UNDEF	?UNDEF	18.10	0.00	096.52	097.06	18.10	0.00	?UNDEF	?UNDEF		
10	1.50	0.00	104.77	?UNDEF	?UNDEF	?UNDEF	18.00	0.00	096.59	097.12	18.10	0.00	?UNDEF	?UNDEF		
11	1.40	0.00	104.98	?UNDEF	?UNDEF	?UNDEF	18.10	0.00	096.70	097.20	18.50	0.00	?UNDEF	?UNDEF		
12	1.40	0.00	104.96	?UNDEF	?UNDEF	?UNDEF	17.20	0.00	096.78	097.29	18.20	0.00	?UNDEF	?UNDEF		
13	1.40	0.00	104.92	?UNDEF	?UNDEF	?UNDEF	17.10	0.00	097.01	097.40	18.20	0.00	?UNDEF	?UNDEF		
14	1.40	0.00	104.88	?UNDEF	?UNDEF	?UNDEF	17.20	0.00	096.95	097.32	17.40	0.00	?UNDEF	?UNDEF		
15	1.50	0.00	104.97	?UNDEF	?UNDEF	?UNDEF	17.50	0.00	097.02	097.38	17.40	0.00	?UNDEF	?UNDEF		
16	1.40	0.00	104.82	?UNDEF	?UNDEF	?UNDEF	17.20	0.00	097.14	097.36	19.20	0.00	?UNDEF	?UNDEF		
17	1.40	0.00	104.83	?UNDEF	?UNDEF	?UNDEF	20.70	0.00	097.01	097.40	17.70	0.00	?UNDEF	?UNDEF		
18	1.40	0.00	104.70	?UNDEF	?UNDEF	?UNDEF	17.30	0.00	097.06	097.71	17.50	0.00	?UNDEF	?UNDEF		
19	1.50	0.00	104.83	?UNDEF	?UNDEF	?UNDEF	17.20	0.00	097.11	097.58	17.30	0.00	?UNDEF	?UNDEF		
20	1.40	0.00	104.77	?UNDEF	?UNDEF	?UNDEF	16.10	0.00	097.11	097.49	15.60	0.00	?UNDEF	?UNDEF		
21	1.40	0.00	104.80	?UNDEF	?UNDEF	?UNDEF	15.60	0.00	097.07	097.46	17.50	0.00	?UNDEF	?UNDEF		
22	1.40	0.00	104.75	?UNDEF	?UNDEF	?UNDEF	17.30	0.00	096.66	097.44	15.60	0.00	?UNDEF	?UNDEF		
23	1.40	0.00	104.37	?UNDEF	?UNDEF	?UNDEF	15.60	0.00	096.40	097.59	15.60	0.00	?UNDEF	?UNDEF		
24	1.50	0.00	104.35	?UNDEF	?UNDEF	?UNDEF	15.30	0.00	096.44	097.43	15.10	0.00	?UNDEF	?UNDEF		
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT		
1	13.70	0.00	?UNDEF	000.00	12.70	0.00	095.65	097.20	59.20	0.00	097.50	097.94	097.28	097.95		
2	13.70	0.00	?UNDEF	000.00	12.70	0.00	095.71	097.28	60.20	0.00	097.55	098.11	097.38	097.97		
3	13.70	0.00	?UNDEF	000.00	14.20	0.00	095.83	097.37	61.00	0.00	097.75	098.07	097.44	098.06		
4	15.00	0.00	?UNDEF	000.00	12.90	0.00	095.93	097.48	75.00	0.00	097.84	098.04	097.53	098.05		
5	15.30	0.00	?UNDEF	000.00	12.60	0.00	096.05	097.71	77.80	0.00	097.93	098.42	097.76	098.03		
6	17.00	0.00	?UNDEF	000.00	12.40	0.00	096.15	097.95	89.80	0.00	098.18	098.37	097.82	098.02		
7	20.70	0.00	?UNDEF	000.00	12.70	0.00	096.20	098.00	109.30	0.00	098.26	098.43	097.95	097.96		
8	20.10	0.00	?UNDEF	000.00	18.00	0.00	096.25	098.74	120.40	0.00	098.30	098.33	097.95	098.00		
9	18.30	0.00	?UNDEF	000.00	18.10	0.00	096.30	098.40	120.90	0.00	098.20	098.40	098.02	098.05		
10	17.90	0.00	?UNDEF	000.00	18.40	0.00	096.34	098.37	120.70	0.00	098.32	098.20	098.14	098.09		
11	17.70	0.00	?UNDEF	000.00	18.00	0.00	096.45	098.63	121.60	0.00	098.52	098.60	098.21	098.20		
12	17.90	0.00	?UNDEF	000.00	19.50	0.00	096.56	098.58	104.00	0.00	099.04	098.69	098.32	098.46		
13	18.20	0.00	?UNDEF	000.00	18.10	0.00	096.67	098.64	104.00	0.00	099.01	098.63	098.46	098.55		
14	20.20	0.00	?UNDEF	000.00	18.20	0.00	096.72	098.70	104.60	0.00	099.05	098.94	098.45	098.62		
15	18.60	0.00	?UNDEF	000.00	18.50	0.00	096.78	098.74	100.20	0.00	099.00	098.90	098.53	098.67		
16	18.80	0.00	?UNDEF	000.00	18.30	0.00	096.81	099.07	98.90	0.00	099.02	098.93	098.45	098.71		
17	20.80	0.00	?UNDEF	000.00	22.10	0.00	096.75	098.60	99.70	0.00	099.07	098.86	098.52	098.78		
18	20.80	0.00	?UNDEF	000.00	20.70	0.00	096.95	098.61	103.90	0.00	098.89	099.01	098.48	098.83		
19	20.60	0.00	?UNDEF	000.00	20.40	0.00	096.82	098.53	79.70	0.00	098.67	098.73	098.37	098.66		
20	15.80	0.00	?UNDEF	000.00	20.70	0.00	096.71	098.43	74.40	0.00	098.60	098.53	098.28	098.64		
21	15.30	0.00	?UNDEF	000.00	20.30	0.00	096.67	098.72	58.00	0.00	098.60	098.22	098.17	098.50		
22	15.20	0.00	?UNDEF	000.00	18.70	0.00	096.72	098.29	57.30	0.00	098.63	098.23	098.14	098.42		
23	15.30	0.00	?UNDEF	000.00	18.40	0.00	096.74	098.31	60.00	0.00	098.78	098.42	098.33	098.39		
24	16.30	0.00	?UNDEF	000.00	18.10	0.00	096.80	098.23	59.50	0.00	098.81	098.46	098.63	098.39		

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DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	
1	1.40	0.00	103.43	?UNDEF	?UNDEF	?UNDEF	13.10	0.00	095.92	096.29	12.70	0.00	?UNDEF	?UNDEF	
2	1.50	0.00	103.32	?UNDEF	?UNDEF	?UNDEF	13.10	0.00	095.77	096.13	13.50	0.00	?UNDEF	?UNDEF	
3	1.40	0.00	103.36	?UNDEF	?UNDEF	?UNDEF	13.90	0.00	095.92	095.99	14.50	0.00	?UNDEF	?UNDEF	
4	1.40	0.00	103.33	?UNDEF	?UNDEF	?UNDEF	15.10	0.00	095.93	095.91	15.10	0.00	?UNDEF	?UNDEF	
5	1.40	0.00	103.20	?UNDEF	?UNDEF	?UNDEF	16.50	0.00	095.54	095.81	16.00	0.00	?UNDEF	?UNDEF	
6	1.40	0.00	103.23	?UNDEF	?UNDEF	?UNDEF	16.10	0.00	095.63	095.60	15.90	0.00	?UNDEF	?UNDEF	
7	1.50	0.00	103.01	?UNDEF	?UNDEF	?UNDEF	16.60	0.00	095.65	095.72	15.90	0.00	?UNDEF	?UNDEF	
8	1.40	0.00	103.33	?UNDEF	?UNDEF	?UNDEF	16.40	0.00	095.45	095.52	15.90	0.00	?UNDEF	?UNDEF	
9	1.40	0.00	103.68	?UNDEF	?UNDEF	?UNDEF	16.40	0.00	095.61	095.66	15.90	0.00	?UNDEF	?UNDEF	
10	1.40	0.00	104.18	?UNDEF	?UNDEF	?UNDEF	16.40	0.00	095.61	095.60	16.30	0.00	?UNDEF	?UNDEF	
11	1.50	0.00	104.52	?UNDEF	?UNDEF	?UNDEF	16.40	0.00	095.76	095.75	16.30	0.00	?UNDEF	?UNDEF	
12	1.40	0.00	104.72	?UNDEF	?UNDEF	?UNDEF	16.40	0.00	095.88	095.68	16.40	0.00	?UNDEF	?UNDEF	
13	1.40	0.00	104.76	?UNDEF	?UNDEF	?UNDEF	16.80	0.00	095.61	095.71	16.30	0.00	?UNDEF	?UNDEF	
14	1.40	0.00	104.60	?UNDEF	?UNDEF	?UNDEF	16.40	0.00	095.51	095.77	16.40	0.00	?UNDEF	?UNDEF	
15	1.40	0.00	104.45	?UNDEF	?UNDEF	?UNDEF	16.40	0.00	095.25	095.73	16.70	0.00	?UNDEF	?UNDEF	
16	1.50	0.00	104.18	?UNDEF	?UNDEF	?UNDEF	16.50	0.00	094.58	095.73	16.40	0.00	?UNDEF	?UNDEF	
17	1.40	0.00	103.78	?UNDEF	?UNDEF	?UNDEF	16.60	0.00	093.82	095.84	16.50	0.00	?UNDEF	?UNDEF	
18	1.40	0.00	103.54	?UNDEF	?UNDEF	?UNDEF	17.20	0.00	093.32	095.69	17.70	0.00	?UNDEF	?UNDEF	
19	1.40	0.00	103.78	?UNDEF	?UNDEF	?UNDEF	17.80	0.00	093.44	095.73	19.20	0.00	?UNDEF	?UNDEF	
20	1.40	0.00	103.42	?UNDEF	?UNDEF	?UNDEF	17.90	0.00	093.77	095.75	21.20	0.00	?UNDEF	?UNDEF	
21	1.50	0.00	103.73	?UNDEF	?UNDEF	?UNDEF	19.60	0.00	095.16	095.82	20.80	0.00	?UNDEF	?UNDEF	
22	1.40	0.00	103.91	?UNDEF	?UNDEF	?UNDEF	17.70	0.00	095.24	096.30	19.00	0.00	?UNDEF	?UNDEF	
23	1.40	0.00	103.99	?UNDEF	?UNDEF	?UNDEF	14.10	0.00	095.07	096.24	14.50	0.00	?UNDEF	?UNDEF	
24	1.40	0.00	103.94	?UNDEF	?UNDEF	?UNDEF	13.40	0.00	095.23	096.29	14.80	0.00	?UNDEF	?UNDEF	
LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT	
1	13.60	0.00	?UNDEF	000.00	12.60	0.00	095.07	096.70	58.00	0.00	096.81	097.51	097.02	097.03	
2	13.70	0.00	?UNDEF	000.00	12.60	0.00	095.06	096.59	61.40	0.00	096.88	097.43	097.17	097.05	
3	15.30	0.00	?UNDEF	000.00	12.00	0.00	095.06	096.59	62.60	0.00	096.72	097.66	097.18	097.01	
4	14.40	0.00	?UNDEF	000.00	12.60	0.00	095.09	096.62	74.30	0.00	096.74	097.68	097.19	097.07	
5	14.50	0.00	?UNDEF	000.00	14.30	0.00	095.13	096.66	78.30	0.00	096.64	097.47	097.12	096.94	
6	15.20	0.00	?UNDEF	000.00	12.70	0.00	095.19	096.84	83.10	0.00	096.76	097.61	097.10	096.74	
7	15.90	0.00	?UNDEF	000.00	12.70	0.00	095.03	096.77	84.50	0.00	096.75	097.61	097.13	096.69	
8	16.20	0.00	?UNDEF	000.00	12.90	0.00	095.09	096.88	84.70	0.00	096.71	097.40	097.17	096.51	
9	15.90	0.00	?UNDEF	000.00	12.80	0.00	095.06	097.04	84.00	0.00	096.84	097.54	097.05	096.50	
10	15.80	0.00	?UNDEF	000.00	13.00	0.00	095.07	097.85	76.20	0.00	097.08	097.36	097.16	096.66	
11	16.00	0.00	?UNDEF	000.00	18.00	0.00	095.02	097.82	77.50	0.00	097.21	097.39	097.12	096.76	
12	15.90	0.00	?UNDEF	000.00	18.40	0.00	095.08	097.87	77.80	0.00	097.50	097.54	097.22	096.96	
13	16.00	0.00	?UNDEF	000.00	21.00	0.00	095.12	098.03	74.60	0.00	097.56	097.64	097.25	097.14	
14	17.60	0.00	?UNDEF	000.00	18.00	0.00	095.19	097.83	75.40	0.00	097.80	097.54	097.33	097.36	
15	15.80	0.00	?UNDEF	000.00	18.00	0.00	095.23	097.57	74.60	0.00	097.82	097.74	097.36	097.49	
16	15.90	0.00	?UNDEF	000.00	18.00	0.00	095.24	097.86	76.10	0.00	097.56	097.73	097.24	097.53	
17	17.50	0.00	?UNDEF	000.00	19.50	0.00	095.23	097.86	75.30	0.00	097.34	097.77	097.27	097.66	
18	20.60	0.00	?UNDEF	000.00	20.00	0.00	095.31	097.21	75.20	0.00	097.05	097.81	097.29	097.68	
19	20.30	0.00	?UNDEF	000.00	20.60	0.00	095.31	097.09	74.30	0.00	097.07	097.62	097.14	097.66	
20	20.30	0.00	?UNDEF	000.00	20.60	0.00	095.31	097.49	70.50	0.00	097.11	097.70	097.33	097.72	
21	20.70	0.00	?UNDEF	000.00	20.50	0.00	095.36	097.42	70.70	0.00	097.27	097.30	097.34	097.74	
22	20.10	0.00	?UNDEF	000.00	20.30	0.00	095.45	097.24	68.60	0.00	097.23	097.66	097.42	097.81	
23	17.10	0.00	?UNDEF	000.00	18.40	0.00	095.50	097.21	60.10	0.00	097.30	097.59	097.35	097.96	
24	13.90	0.00	?UNDEF	000.00	12.80	0.00	095.57	097.24	56.50	0.00	097.22	097.67	097.31	097.96	

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	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.40	0.00	103.27	?UNDEF	?UNDEF	?UNDEF	14.10	0.00	094.97	096.05	14.20	0.00	?UNDEF	?UNDEF
2	1.40	0.00	103.01	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	094.93	096.00	13.70	0.00	?UNDEF	?UNDEF
3	1.40	0.00	103.06	?UNDEF	?UNDEF	?UNDEF	14.10	0.00	094.88	096.03	13.70	0.00	?UNDEF	?UNDEF
4	1.50	0.00	103.15	?UNDEF	?UNDEF	?UNDEF	13.90	0.00	094.51	096.02	13.90	0.00	?UNDEF	?UNDEF
5	1.40	0.00	103.23	?UNDEF	?UNDEF	?UNDEF	14.20	0.00	094.12	095.97	14.10	0.00	?UNDEF	?UNDEF
6	1.40	0.00	103.32	?UNDEF	?UNDEF	?UNDEF	17.50	0.00	094.38	095.84	15.60	0.00	?UNDEF	?UNDEF
7	1.40	0.00	103.30	?UNDEF	?UNDEF	?UNDEF	17.70	0.00	094.28	095.63	17.40	0.00	?UNDEF	?UNDEF
8	1.50	0.00	103.21	?UNDEF	?UNDEF	?UNDEF	19.10	0.00	094.24	095.42	20.00	0.00	?UNDEF	?UNDEF
9	1.40	0.00	103.45	?UNDEF	?UNDEF	?UNDEF	19.30	0.00	094.31	095.36	20.60	0.00	?UNDEF	?UNDEF
10	1.40	0.00	103.72	?UNDEF	?UNDEF	?UNDEF	19.50	0.00	094.18	095.39	20.20	0.00	?UNDEF	?UNDEF
11	1.40	0.00	104.27	?UNDEF	?UNDEF	?UNDEF	19.20	0.00	094.88	095.52	20.30	0.00	?UNDEF	?UNDEF
12	1.40	0.00	104.57	?UNDEF	?UNDEF	?UNDEF	20.90	0.00	094.79	096.11	20.30	0.00	?UNDEF	?UNDEF
13	1.50	0.00	104.89	?UNDEF	?UNDEF	?UNDEF	19.10	0.00	095.25	095.77	21.80	0.00	?UNDEF	?UNDEF
14	1.40	0.00	104.89	?UNDEF	?UNDEF	?UNDEF	17.90	0.00	095.29	095.80	19.70	0.00	?UNDEF	?UNDEF
15	1.40	0.00	104.80	?UNDEF	?UNDEF	?UNDEF	17.80	0.00	095.17	095.64	20.90	0.00	?UNDEF	?UNDEF
16	1.40	0.00	104.28	?UNDEF	?UNDEF	?UNDEF	17.30	0.00	095.07	095.74	19.40	0.00	?UNDEF	?UNDEF
17	1.50	0.00	103.89	?UNDEF	?UNDEF	?UNDEF	17.00	0.00	095.85	095.56	18.70	0.00	?UNDEF	?UNDEF
18	1.40	0.00	103.56	?UNDEF	?UNDEF	?UNDEF	16.90	0.00	095.54	095.50	21.90	0.00	?UNDEF	?UNDEF
19	1.40	0.00	103.89	?UNDEF	?UNDEF	?UNDEF	16.80	0.00	095.37	095.37	18.60	0.00	?UNDEF	?UNDEF
20	1.40	0.00	103.32	?UNDEF	?UNDEF	?UNDEF	15.70	0.00	095.51	095.48	17.20	0.00	?UNDEF	?UNDEF
21	1.40	0.00	103.19	?UNDEF	?UNDEF	?UNDEF	15.20	0.00	096.05	095.72	17.00	0.00	?UNDEF	?UNDEF
22	1.50	0.00	103.19	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	095.45	095.97	14.70	0.00	?UNDEF	?UNDEF
23	1.40	0.00	103.29	?UNDEF	?UNDEF	?UNDEF	12.80	0.00	095.76	096.76	13.10	0.00	?UNDEF	?UNDEF
24	1.40	0.00	103.48	?UNDEF	?UNDEF	?UNDEF	12.80	0.00	096.19	096.93	14.20	0.00	?UNDEF	?UNDEF
	LOWER MONUMENTAL			ICE HARBOR				MCNARY				PASCO		
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	13.70	0.00	?UNDEF	000.00	13.00	0.00	095.43	096.97	79.80	0.00	097.35	097.50	097.13	097.58
2	15.30	0.00	?UNDEF	000.00	14.50	0.00	095.36	096.89	81.00	0.00	096.99	097.16	097.06	097.37
3	15.30	0.00	?UNDEF	000.00	13.00	0.00	095.31	096.83	75.90	0.00	097.08	097.28	096.91	097.23
4	14.00	0.00	?UNDEF	000.00	13.00	0.00	095.28	096.83	62.10	0.00	097.23	097.40	096.78	097.02
5	14.00	0.00	?UNDEF	000.00	13.20	0.00	095.26	096.94	77.40	0.00	096.93	097.52	096.86	096.87
6	14.10	0.00	?UNDEF	000.00	14.50	0.00	095.23	097.55	89.20	0.00	096.94	097.49	096.84	096.54
7	17.30	0.00	?UNDEF	000.00	13.00	0.00	095.19	097.11	96.20	0.00	096.85	097.27	096.80	096.40
8	19.30	0.00	?UNDEF	000.00	13.00	0.00	095.13	097.58	99.90	0.00	096.76	097.20	096.71	096.26
9	19.60	0.00	?UNDEF	000.00	17.70	0.00	095.08	097.76	99.50	0.00	096.76	097.35	096.74	096.29
10	19.60	0.00	?UNDEF	000.00	21.30	0.00	095.08	098.27	89.20	0.00	096.85	097.07	096.71	096.38
11	21.30	0.00	?UNDEF	000.00	21.90	0.00	095.06	097.74	78.90	0.00	097.50	097.48	096.84	096.64
12	20.90	0.00	?UNDEF	000.00	21.90	0.00	095.12	098.63	76.90	0.00	097.88	097.65	097.02	097.00
13	22.50	0.00	?UNDEF	000.00	21.80	0.00	095.19	098.30	74.40	0.00	098.05	098.01	097.10	097.35
14	22.40	0.00	?UNDEF	000.00	21.80	0.00	095.24	097.63	73.20	0.00	097.96	098.55	097.40	097.47
15	20.90	0.00	?UNDEF	000.00	22.10	0.00	095.29	097.62	74.70	0.00	097.81	098.44	097.40	097.68
16	22.60	0.00	?UNDEF	000.00	23.20	0.00	095.32	097.51	75.70	0.00	097.44	098.32	097.27	097.66
17	21.90	0.00	?UNDEF	000.00	24.20	0.00	095.31	097.37	78.10	0.00	097.42	098.14	097.22	097.81
18	22.90	0.00	?UNDEF	000.00	25.70	0.00	095.26	097.04	81.20	0.00	097.14	098.11	097.22	097.92
19	21.20	0.00	?UNDEF	000.00	24.10	0.00	095.23	096.87	81.80	0.00	097.02	097.95	097.22	097.77
20	19.80	0.00	?UNDEF	000.00	23.60	0.00	095.24	096.74	79.90	0.00	097.00	097.29	097.19	097.48
21	19.80	0.00	?UNDEF	000.00	20.20	0.00	095.16	096.96	74.10	0.00	096.77	097.51	097.01	097.31
22	18.30	0.00	?UNDEF	000.00	20.00	0.00	095.16	096.58	66.10	0.00	096.81	097.64	097.02	097.15
23	17.00	0.00	?UNDEF	000.00	18.00	0.00	095.17	097.12	63.00	0.00	096.89	097.45	096.87	097.18
24	14.40	0.00	?UNDEF	000.00	12.90	0.00	095.12	096.96	60.40	0.00	096.97	097.81	097.07	097.18

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DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.
1	1.50	0.00	103.62	?UNDEF	?UNDEF	?UNDEF	12.70	0.00	096.20	096.67	12.70	0.00	?UNDEF	?UNDEF
2	1.40	0.00	103.64	?UNDEF	?UNDEF	?UNDEF	14.40	0.00	096.11	096.60	12.60	0.00	?UNDEF	?UNDEF
3	1.40	0.00	103.37	?UNDEF	?UNDEF	?UNDEF	14.60	0.00	096.43	097.05	12.60	0.00	?UNDEF	?UNDEF
4	1.40	0.00	103.45	?UNDEF	?UNDEF	?UNDEF	12.70	0.00	096.34	097.39	12.80	0.00	?UNDEF	?UNDEF
5	1.40	0.00	103.49	?UNDEF	?UNDEF	?UNDEF	12.60	0.00	096.39	097.14	14.10	0.00	?UNDEF	?UNDEF
6	1.50	0.00	103.39	?UNDEF	?UNDEF	?UNDEF	12.60	0.00	096.39	096.78	14.00	0.00	?UNDEF	?UNDEF
7	1.40	0.00	103.43	?UNDEF	?UNDEF	?UNDEF	12.60	0.00	096.46	096.50	12.50	0.00	?UNDEF	?UNDEF
8	1.40	0.00	103.43	?UNDEF	?UNDEF	?UNDEF	16.90	0.00	096.46	096.51	12.50	0.00	?UNDEF	?UNDEF
9	1.40	0.00	103.76	?UNDEF	?UNDEF	?UNDEF	17.00	0.00	096.69	096.60	14.40	0.00	?UNDEF	?UNDEF
10	1.40	0.00	103.77	?UNDEF	?UNDEF	?UNDEF	17.00	0.00	096.63	096.59	12.80	0.00	?UNDEF	?UNDEF
11	1.50	0.00	104.20	?UNDEF	?UNDEF	?UNDEF	17.00	0.00	096.80	096.77	18.50	0.00	?UNDEF	?UNDEF
12	1.40	0.00	104.69	?UNDEF	?UNDEF	?UNDEF	19.10	0.00	096.93	096.77	17.30	0.00	?UNDEF	?UNDEF
13	1.40	0.00	104.91	?UNDEF	?UNDEF	?UNDEF	21.30	0.00	097.04	096.86	19.50	0.00	?UNDEF	?UNDEF
14	1.40	0.00	105.13	?UNDEF	?UNDEF	?UNDEF	19.20	0.00	096.93	097.29	21.80	0.00	?UNDEF	?UNDEF
15	1.50	0.00	105.04	?UNDEF	?UNDEF	?UNDEF	17.40	0.00	096.79	097.07	21.40	0.00	?UNDEF	?UNDEF
16	1.40	0.00	104.84	?UNDEF	?UNDEF	?UNDEF	17.10	0.00	095.77	096.95	17.90	0.00	?UNDEF	?UNDEF
17	1.40	0.00	104.52	?UNDEF	?UNDEF	?UNDEF	15.60	0.00	095.43	097.04	17.80	0.00	?UNDEF	?UNDEF
18	1.40	0.00	104.03	?UNDEF	?UNDEF	?UNDEF	15.40	0.00	095.68	096.85	17.90	0.00	?UNDEF	?UNDEF
19	1.40	0.00	104.52	?UNDEF	?UNDEF	?UNDEF	15.30	0.00	095.94	096.65	18.20	0.00	?UNDEF	?UNDEF
20	1.50	0.00	103.86	?UNDEF	?UNDEF	?UNDEF	15.30	0.00	095.73	096.76	18.00	0.00	?UNDEF	?UNDEF
21	1.40	0.00	103.74	?UNDEF	?UNDEF	?UNDEF	16.20	0.00	095.88	096.79	17.80	0.00	?UNDEF	?UNDEF
22	1.40	0.00	103.55	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	095.47	096.54	14.50	0.00	?UNDEF	?UNDEF
23	1.40	0.00	103.48	?UNDEF	?UNDEF	?UNDEF	14.10	0.00	095.24	096.26	14.30	0.00	?UNDEF	?UNDEF
24	1.50	0.00	103.50	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	095.07	096.08	15.60	0.00	?UNDEF	?UNDEF
LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT
1	13.80	0.00	?UNDEF	000.00	14.00	0.00	096.50	097.93	63.30	0.00	098.40	097.78	097.56	100.39
2	13.80	0.00	?UNDEF	000.00	12.20	0.00	096.51	097.96	60.80	0.00	098.14	098.08	097.57	100.16
3	15.30	0.00	?UNDEF	000.00	11.20	0.00	096.43	098.40	59.00	0.00	098.04	098.09	097.63	099.97
4	13.90	0.00	?UNDEF	000.00	10.90	0.00	096.35	098.58	58.10	0.00	098.11	098.04	097.64	099.60
5	13.80	0.00	?UNDEF	000.00	12.10	0.00	096.37	098.37	58.90	0.00	098.11	098.16	097.82	099.39
6	14.00	0.00	?UNDEF	000.00	10.80	0.00	096.42	098.26	80.90	0.00	097.87	098.35	097.95	099.03
7	13.80	0.00	?UNDEF	000.00	11.70	0.00	096.41	098.66	98.40	0.00	097.87	098.05	097.95	098.91
8	13.80	0.00	?UNDEF	000.00	12.70	0.00	096.40	098.41	117.90	0.00	097.90	098.23	097.83	098.77
9	13.80	0.00	?UNDEF	000.00	14.30	0.00	096.24	098.25	139.20	0.00	097.88	098.03	097.97	098.65
10	15.30	0.00	?UNDEF	000.00	12.80	0.00	096.41	099.06	130.40	0.00	097.86	098.12	097.89	098.72
11	13.80	0.00	?UNDEF	000.00	12.70	0.00	096.29	098.70	110.60	0.00	097.88	098.08	098.12	098.79
12	13.90	0.00	?UNDEF	000.00	13.50	0.00	096.44	098.58	99.50	0.00	097.78	098.38	098.14	098.80
13	19.30	0.00	?UNDEF	000.00	18.30	0.00	096.49	099.17	91.90	0.00	097.95	098.30	098.23	098.96
14	19.90	0.00	?UNDEF	000.00	19.50	0.00	096.50	098.74	92.40	0.00	097.84	098.30	098.22	099.12
15	20.30	0.00	?UNDEF	000.00	18.00	0.00	096.49	098.60	92.00	0.00	098.01	098.54	098.22	099.23
16	21.50	0.00	?UNDEF	000.00	18.10	0.00	096.42	098.54	93.00	0.00	097.92	098.38	098.16	099.15
17	21.40	0.00	?UNDEF	000.00	18.00	0.00	096.28	098.12	93.50	0.00	097.84	098.28	097.93	099.00
18	19.80	0.00	?UNDEF	000.00	18.30	0.00	096.10	097.80	93.80	0.00	097.88	098.06	097.58	098.80
19	21.10	0.00	?UNDEF	000.00	19.50	0.00	096.03	097.71	92.40	0.00	097.70	097.86	097.50	098.74
20	19.60	0.00	?UNDEF	000.00	19.60	0.00	095.96	097.61	91.00	0.00	097.63	097.93	097.57	098.53
21	19.60	0.00	?UNDEF	000.00	18.10	0.00	095.87	097.82	90.20	0.00	097.38	097.82	097.46	098.31
22	18.80	0.00	?UNDEF	000.00	18.10	0.00	095.60	097.57	89.50	0.00	097.42	097.60	097.38	098.21
23	13.90	0.00	?UNDEF	000.00	18.10	0.00	095.57	097.78	78.70	0.00	097.32	097.75	097.26	097.99
24	13.90	0.00	?UNDEF	000.00	18.00	0.00	095.45	097.14	78.50	0.00	097.52	097.67	097.18	097.99

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DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.
1	1.40	0.00	103.06	?UNDEF	?UNDEF	?UNDEF	15.40	0.00	094.95	095.38	14.60	0.00	?UNDEF	?UNDEF
2	1.50	0.00	102.92	?UNDEF	?UNDEF	?UNDEF	12.90	0.00	095.03	095.82	15.00	0.00	?UNDEF	?UNDEF
3	1.40	0.00	103.08	?UNDEF	?UNDEF	?UNDEF	12.60	0.00	095.09	095.87	13.20	0.00	?UNDEF	?UNDEF
4	1.40	0.00	103.11	?UNDEF	?UNDEF	?UNDEF	12.60	0.00	095.12	095.68	13.30	0.00	?UNDEF	?UNDEF
5	1.40	0.00	102.87	?UNDEF	?UNDEF	?UNDEF	14.70	0.00	095.01	095.69	15.10	0.00	?UNDEF	?UNDEF
6	1.40	0.00	102.66	?UNDEF	?UNDEF	?UNDEF	18.00	0.00	095.16	095.89	18.50	0.00	?UNDEF	?UNDEF
7	1.50	0.00	102.67	?UNDEF	?UNDEF	?UNDEF	19.90	0.00	095.22	095.89	21.00	0.00	?UNDEF	?UNDEF
8	1.40	0.00	102.82	?UNDEF	?UNDEF	?UNDEF	20.60	0.00	095.24	095.62	22.40	0.00	?UNDEF	?UNDEF
9	1.40	0.00	103.12	?UNDEF	?UNDEF	?UNDEF	20.60	0.00	095.24	095.66	21.00	0.00	?UNDEF	?UNDEF
10	1.40	0.00	103.31	?UNDEF	?UNDEF	?UNDEF	20.60	0.00	095.43	095.71	20.90	0.00	?UNDEF	?UNDEF
11	1.50	0.00	103.70	?UNDEF	?UNDEF	?UNDEF	20.60	0.00	095.47	095.76	20.90	0.00	?UNDEF	?UNDEF
12	1.40	0.00	104.08	?UNDEF	?UNDEF	?UNDEF	20.10	0.00	095.64	095.87	21.20	0.00	?UNDEF	?UNDEF
13	1.40	0.00	104.63	?UNDEF	?UNDEF	?UNDEF	18.80	0.00	095.92	096.01	20.20	0.00	?UNDEF	?UNDEF
14	1.40	0.00	105.16	?UNDEF	?UNDEF	?UNDEF	16.80	0.00	096.02	096.09	20.10	0.00	?UNDEF	?UNDEF
15	1.40	0.00	105.31	?UNDEF	?UNDEF	?UNDEF	15.30	0.00	096.10	096.00	17.10	0.00	?UNDEF	?UNDEF
16	1.50	0.00	105.33	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	095.98	096.08	16.10	0.00	?UNDEF	?UNDEF
17	1.40	0.00	104.90	?UNDEF	?UNDEF	?UNDEF	14.10	0.00	096.24	096.23	16.40	0.00	?UNDEF	?UNDEF
18	1.40	0.00	104.35	?UNDEF	?UNDEF	?UNDEF	15.20	0.00	096.57	096.15	15.20	0.00	?UNDEF	?UNDEF
19	1.40	0.00	104.90	?UNDEF	?UNDEF	?UNDEF	13.50	0.00	096.58	096.39	13.40	0.00	?UNDEF	?UNDEF
20	1.40	0.00	103.50	?UNDEF	?UNDEF	?UNDEF	15.20	0.00	096.50	096.44	13.30	0.00	?UNDEF	?UNDEF
21	1.50	0.00	103.36	?UNDEF	?UNDEF	?UNDEF	13.50	0.00	096.23	096.87	13.70	0.00	?UNDEF	?UNDEF
22	1.40	0.00	103.41	?UNDEF	?UNDEF	?UNDEF	15.40	0.00	095.86	097.42	13.80	0.00	?UNDEF	?UNDEF
23	1.40	0.00	103.39	?UNDEF	?UNDEF	?UNDEF	13.50	0.00	095.71	097.29	13.60	0.00	?UNDEF	?UNDEF
24	1.40	0.00	103.60	?UNDEF	?UNDEF	?UNDEF	12.70	0.00	095.47	096.91	14.20	0.00	?UNDEF	?UNDEF
LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT
1	18.40	0.00	?UNDEF	000.00	12.90	0.00	095.29	097.87	56.90	0.00	098.44	097.57	097.07	099.13
2	14.30	0.00	?UNDEF	000.00	14.00	0.00	095.28	097.51	57.90	0.00	098.51	097.66	097.36	099.13
3	14.20	0.00	?UNDEF	000.00	12.50	0.00	095.31	097.37	57.50	0.00	098.53	097.66	097.37	099.01
4	14.20	0.00	?UNDEF	000.00	12.70	0.00	095.35	097.27	58.10	0.00	098.23	097.61	097.24	098.65
5	15.40	0.00	?UNDEF	000.00	17.90	0.00	095.35	097.24	58.10	0.00	098.18	097.54	096.94	098.39
6	18.20	0.00	?UNDEF	000.00	18.10	0.00	095.44	097.66	82.10	0.00	097.89	097.54	097.17	098.24
7	20.30	0.00	?UNDEF	000.00	21.80	0.00	095.48	097.53	96.20	0.00	097.80	097.57	097.06	098.12
8	21.40	0.00	?UNDEF	000.00	22.10	0.00	095.49	097.55	104.80	0.00	097.52	097.45	097.21	098.01
9	20.90	0.00	?UNDEF	000.00	23.70	0.00	095.47	097.34	98.00	0.00	097.39	097.54	097.15	097.97
10	22.60	0.00	?UNDEF	000.00	22.30	0.00	095.44	097.91	90.30	0.00	097.35	097.28	097.20	098.14
11	21.00	0.00	?UNDEF	000.00	22.10	0.00	095.62	097.51	89.90	0.00	097.41	097.21	097.36	098.33
12	20.90	0.00	?UNDEF	000.00	22.40	0.00	095.84	098.09	94.60	0.00	097.46	097.26	097.43	098.66
13	22.40	0.00	?UNDEF	000.00	22.10	0.00	096.07	097.81	91.90	0.00	097.83	097.50	097.67	099.01
14	22.30	0.00	?UNDEF	000.00	22.00	0.00	096.16	098.49	89.20	0.00	099.15	097.47	097.77	099.38
15	19.50	0.00	?UNDEF	000.00	22.50	0.00	096.13	098.10	97.00	0.00	099.11	097.96	097.85	099.75
16	20.70	0.00	?UNDEF	000.00	20.90	0.00	096.18	098.02	94.40	0.00	099.14	097.76	097.88	100.04
17	17.00	0.00	?UNDEF	000.00	19.80	0.00	096.19	097.99	95.70	0.00	099.40	097.76	097.75	100.17
18	15.60	0.00	?UNDEF	000.00	19.70	0.00	096.12	099.00	98.20	0.00	099.58	097.79	097.82	100.40
19	13.90	0.00	?UNDEF	000.00	19.70	0.00	096.16	098.60	98.50	0.00	099.32	097.55	097.58	100.53
20	13.90	0.00	?UNDEF	000.00	18.50	0.00	096.16	098.31	98.80	0.00	099.60	097.55	097.46	100.56
21	13.90	0.00	?UNDEF	000.00	13.60	0.00	096.44	098.22	76.00	0.00	099.11	097.45	097.37	100.56
22	14.10	0.00	?UNDEF	000.00	14.40	0.00	096.60	098.40	68.00	0.00	098.99	097.85	097.36	100.48
23	13.80	0.00	?UNDEF	000.00	12.90	0.00	096.66	098.44	67.50	0.00	098.49	097.91	097.45	100.55
24	13.80	0.00	?UNDEF	000.00	12.70	0.00	096.57	097.96	66.40	0.00	098.43	097.72	097.48	100.55

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WALLA WALLA DISTRICT HYDRO PROJECTS
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DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	
1	1.40	0.00	103.49	?UNDEF	?UNDEF	?UNDEF	13.80	0.00	094.51	095.42	13.40	0.00	?UNDEF	?UNDEF	
2	1.40	0.00	103.42	?UNDEF	?UNDEF	?UNDEF	14.30	0.00	094.53	095.48	14.10	0.00	?UNDEF	?UNDEF	
3	1.50	0.00	103.28	?UNDEF	?UNDEF	?UNDEF	13.80	0.00	094.86	095.56	13.40	0.00	?UNDEF	?UNDEF	
4	1.40	0.00	103.35	?UNDEF	?UNDEF	?UNDEF	13.60	0.00	095.02	095.40	13.60	0.00	?UNDEF	?UNDEF	
5	1.40	0.00	103.35	?UNDEF	?UNDEF	?UNDEF	13.40	0.00	095.18	095.42	13.50	0.00	?UNDEF	?UNDEF	
6	1.40	0.00	103.46	?UNDEF	?UNDEF	?UNDEF	14.30	0.00	095.14	095.40	13.80	0.00	?UNDEF	?UNDEF	
7	1.40	0.00	103.44	?UNDEF	?UNDEF	?UNDEF	20.20	0.00	094.98	095.25	20.40	0.00	?UNDEF	?UNDEF	
8	1.50	0.00	103.36	?UNDEF	?UNDEF	?UNDEF	20.50	0.00	094.93	095.14	20.80	0.00	?UNDEF	?UNDEF	
9	1.40	0.00	103.59	?UNDEF	?UNDEF	?UNDEF	21.00	0.00	094.84	095.10	21.20	0.00	?UNDEF	?UNDEF	
10	1.40	0.00	103.86	?UNDEF	?UNDEF	?UNDEF	21.20	0.00	094.79	095.06	21.50	0.00	?UNDEF	?UNDEF	
11	1.40	0.00	104.25	?UNDEF	?UNDEF	?UNDEF	21.40	0.00	094.79	095.12	21.20	0.00	?UNDEF	?UNDEF	
12	1.50	0.00	104.76	?UNDEF	?UNDEF	?UNDEF	20.90	0.00	094.88	095.12	20.80	0.00	?UNDEF	?UNDEF	
13	1.40	0.00	105.19	?UNDEF	?UNDEF	?UNDEF	20.40	0.00	095.00	095.00	20.80	0.00	?UNDEF	?UNDEF	
14	1.40	0.00	105.07	?UNDEF	?UNDEF	?UNDEF	20.20	0.00	095.09	095.16	20.80	0.00	?UNDEF	?UNDEF	
15	1.40	0.00	104.69	?UNDEF	?UNDEF	?UNDEF	17.70	0.00	095.03	095.13	21.10	0.00	?UNDEF	?UNDEF	
16	1.40	0.00	104.68	?UNDEF	?UNDEF	?UNDEF	17.50	0.00	095.05	095.30	22.10	0.00	?UNDEF	?UNDEF	
17	1.50	0.00	104.40	?UNDEF	?UNDEF	?UNDEF	17.20	0.00	094.93	095.30	17.50	0.00	?UNDEF	?UNDEF	
18	1.40	0.00	104.13	?UNDEF	?UNDEF	?UNDEF	18.70	0.00	094.90	095.29	18.70	0.00	?UNDEF	?UNDEF	
19	1.40	0.00	104.40	?UNDEF	?UNDEF	?UNDEF	17.80	0.00	094.63	096.19	19.10	0.00	?UNDEF	?UNDEF	
20	1.40	0.00	103.27	?UNDEF	?UNDEF	?UNDEF	18.00	0.00	094.61	095.65	18.80	0.00	?UNDEF	?UNDEF	
21	1.40	0.00	103.22	?UNDEF	?UNDEF	?UNDEF	18.40	0.00	094.90	095.38	18.50	0.00	?UNDEF	?UNDEF	
22	1.50	0.00	103.22	?UNDEF	?UNDEF	?UNDEF	19.80	0.00	094.89	095.26	18.60	0.00	?UNDEF	?UNDEF	
23	1.40	0.00	102.97	?UNDEF	?UNDEF	?UNDEF	18.10	0.00	094.90	095.52	18.50	0.00	?UNDEF	?UNDEF	
24	1.40	0.00	102.88	?UNDEF	?UNDEF	?UNDEF	14.30	0.00	094.91	095.47	17.00	0.00	?UNDEF	?UNDEF	
LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT	
1	13.50	0.00	?UNDEF	000.00	12.90	0.00	095.40	096.81	72.80	0.00	097.26	097.19	096.82	097.95	
2	13.50	0.00	?UNDEF	000.00	12.90	0.00	095.39	096.79	86.50	0.00	097.23	097.16	096.82	097.81	
3	15.00	0.00	?UNDEF	000.00	13.20	0.00	095.38	096.71	77.80	0.00	097.34	096.86	096.90	097.72	
4	13.60	0.00	?UNDEF	000.00	14.50	0.00	095.48	096.73	71.20	0.00	097.20	097.09	096.90	097.61	
5	13.60	0.00	?UNDEF	000.00	13.00	0.00	095.44	096.86	79.20	0.00	097.18	097.37	096.88	097.50	
6	14.00	0.00	?UNDEF	000.00	13.90	0.00	095.39	096.83	83.40	0.00	097.15	097.36	096.84	097.32	
7	21.80	0.00	?UNDEF	000.00	21.20	0.00	095.38	096.76	83.00	0.00	097.10	097.29	096.79	097.31	
8	20.70	0.00	?UNDEF	000.00	20.10	0.00	095.31	097.69	78.50	0.00	097.08	097.24	096.74	097.10	
9	20.90	0.00	?UNDEF	000.00	20.70	0.00	095.24	097.67	77.60	0.00	097.00	097.02	096.83	097.01	
10	21.00	0.00	?UNDEF	000.00	23.50	0.00	095.23	098.03	77.50	0.00	097.09	097.10	097.03	097.10	
11	21.10	0.00	?UNDEF	000.00	22.10	0.00	095.21	097.23	76.10	0.00	097.34	096.47	097.57	097.36	
12	20.90	0.00	?UNDEF	000.00	23.50	0.00	095.21	097.46	75.70	0.00	097.96	096.72	097.38	097.63	
13	21.80	0.00	?UNDEF	000.00	21.90	0.00	095.24	098.15	84.20	0.00	098.87	097.07	097.62	098.04	
14	20.20	0.00	?UNDEF	000.00	20.10	0.00	095.43	097.81	84.90	0.00	098.52	097.35	097.52	098.35	
15	21.80	0.00	?UNDEF	000.00	19.50	0.00	095.43	098.41	87.00	0.00	097.62	097.10	097.68	098.72	
16	19.90	0.00	?UNDEF	000.00	19.50	0.00	095.41	098.60	80.00	0.00	097.34	097.08	097.55	098.99	
17	18.30	0.00	?UNDEF	000.00	21.20	0.00	095.42	097.99	71.30	0.00	099.05	097.49	097.58	099.05	
18	18.90	0.00	?UNDEF	000.00	13.70	0.00	095.28	097.61	71.10	0.00	099.03	097.16	097.35	099.27	
19	18.30	0.00	?UNDEF	000.00	12.90	0.00	095.31	097.49	71.10	0.00	098.99	097.46	097.23	099.20	
20	18.40	0.00	?UNDEF	000.00	12.80	0.00	095.30	097.23	76.90	0.00	098.93	097.29	097.06	099.26	
21	18.30	0.00	?UNDEF	000.00	14.50	0.00	095.31	097.62	67.80	0.00	098.85	097.31	097.09	099.42	
22	18.30	0.00	?UNDEF	000.00	13.00	0.00	095.31	097.24	63.30	0.00	098.75	097.36	097.25	099.38	
23	18.30	0.00	?UNDEF	000.00	13.20	0.00	095.18	097.24	58.70	0.00	098.77	097.37	097.12	099.27	
24	18.80	0.00	?UNDEF	000.00	13.00	0.00	095.19	097.13	58.30	0.00	098.39	097.53	097.16	099.27	

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WALLA WALLA DISTRICT HYDRO PROJECTS
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DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.
1	1.50	0.00	104.71	?UNDEF	?UNDEF	?UNDEF	13.20	0.00	094.44	095.05	14.00	0.00	?UNDEF	?UNDEF
2	1.50	0.00	104.62	?UNDEF	?UNDEF	?UNDEF	13.10	0.00	094.21	095.14	15.90	0.00	?UNDEF	?UNDEF
3	1.50	0.00	104.25	?UNDEF	?UNDEF	?UNDEF	14.80	0.00	094.32	095.07	14.40	0.00	?UNDEF	?UNDEF
4	1.50	0.00	104.01	?UNDEF	?UNDEF	?UNDEF	13.10	0.00	094.32	095.57	14.80	0.00	?UNDEF	?UNDEF
5	1.50	0.00	104.22	?UNDEF	?UNDEF	?UNDEF	13.40	0.00	094.08	095.38	14.50	0.00	?UNDEF	?UNDEF
6	1.50	0.00	103.88	?UNDEF	?UNDEF	?UNDEF	16.90	0.00	094.20	095.26	15.40	0.00	?UNDEF	?UNDEF
7	1.50	0.00	103.92	?UNDEF	?UNDEF	?UNDEF	19.40	0.00	094.16	095.35	16.80	0.00	?UNDEF	?UNDEF
8	1.50	0.00	103.97	?UNDEF	?UNDEF	?UNDEF	18.00	0.00	093.97	095.32	18.20	0.00	?UNDEF	?UNDEF
9	1.50	0.00	104.19	?UNDEF	?UNDEF	?UNDEF	20.50	0.00	093.56	095.15	21.50	0.00	?UNDEF	?UNDEF
10	1.50	0.00	103.91	?UNDEF	?UNDEF	?UNDEF	21.30	0.00	093.31	095.11	21.40	0.00	?UNDEF	?UNDEF
11	1.50	0.00	104.75	?UNDEF	?UNDEF	?UNDEF	19.70	0.00	093.44	095.14	21.40	0.00	?UNDEF	?UNDEF
12	1.40	0.00	105.64	?UNDEF	?UNDEF	?UNDEF	21.30	0.00	093.47	095.71	22.90	0.00	?UNDEF	?UNDEF
13	1.50	0.00	105.95	?UNDEF	?UNDEF	?UNDEF	19.70	0.00	094.06	095.48	21.20	0.00	?UNDEF	?UNDEF
14	1.40	0.00	105.79	?UNDEF	?UNDEF	?UNDEF	15.60	0.00	094.48	095.70	17.00	0.00	?UNDEF	?UNDEF
15	1.40	0.00	105.88	?UNDEF	?UNDEF	?UNDEF	17.00	0.00	094.65	095.83	14.60	0.00	?UNDEF	?UNDEF
16	1.40	0.00	105.64	?UNDEF	?UNDEF	?UNDEF	16.80	0.00	094.38	096.63	14.60	0.00	?UNDEF	?UNDEF
17	1.50	0.00	105.41	?UNDEF	?UNDEF	?UNDEF	15.10	0.00	094.39	096.67	14.60	0.00	?UNDEF	?UNDEF
18	1.40	0.00	105.01	?UNDEF	?UNDEF	?UNDEF	15.10	0.00	094.44	096.15	14.70	0.00	?UNDEF	?UNDEF
19	1.40	0.00	105.41	?UNDEF	?UNDEF	?UNDEF	16.80	0.00	094.71	095.85	16.30	0.00	?UNDEF	?UNDEF
20	1.40	0.00	103.87	?UNDEF	?UNDEF	?UNDEF	15.10	0.00	094.39	096.25	14.40	0.00	?UNDEF	?UNDEF
21	1.40	0.00	103.63	?UNDEF	?UNDEF	?UNDEF	15.30	0.00	094.13	095.99	14.40	0.00	?UNDEF	?UNDEF
22	1.50	0.00	103.63	?UNDEF	?UNDEF	?UNDEF	15.00	0.00	094.16	095.76	14.30	0.00	?UNDEF	?UNDEF
23	1.40	0.00	103.76	?UNDEF	?UNDEF	?UNDEF	15.10	0.00	094.18	095.46	17.00	0.00	?UNDEF	?UNDEF
24	1.40	0.00	103.64	?UNDEF	?UNDEF	?UNDEF	13.70	0.00	094.44	095.39	15.20	0.00	?UNDEF	?UNDEF
LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT
1	15.20	0.00	?UNDEF	000.00	12.60	0.00	095.08	097.40	101.80	0.00	097.07	097.09	097.11	096.84
2	13.90	0.00	?UNDEF	000.00	12.60	0.00	095.02	097.11	98.50	0.00	097.05	097.09	097.12	096.84
3	13.70	0.00	?UNDEF	000.00	14.30	0.00	094.97	096.97	99.00	0.00	096.99	097.16	096.95	096.64
4	13.70	0.00	?UNDEF	000.00	12.70	0.00	095.10	096.90	99.90	0.00	096.98	097.16	096.65	096.63
5	13.70	0.00	?UNDEF	000.00	12.60	0.00	094.99	096.76	114.90	0.00	096.93	097.12	096.64	096.60
6	15.00	0.00	?UNDEF	000.00	14.10	0.00	094.92	096.73	118.70	0.00	096.80	097.11	096.58	096.62
7	15.10	0.00	?UNDEF	000.00	14.20	0.00	094.89	096.72	123.80	0.00	096.77	096.92	096.58	096.60
8	18.50	0.00	?UNDEF	000.00	17.80	0.00	094.92	097.26	124.50	0.00	096.74	097.07	096.58	096.57
9	21.10	0.00	?UNDEF	000.00	20.60	0.00	094.89	097.15	123.80	0.00	096.69	096.63	096.51	096.54
10	22.80	0.00	?UNDEF	000.00	20.30	0.00	094.90	097.57	121.20	0.00	096.76	096.78	096.64	096.66
11	22.40	0.00	?UNDEF	000.00	21.70	0.00	094.94	097.69	111.40	0.00	096.80	097.09	096.94	096.95
12	21.20	0.00	?UNDEF	000.00	20.30	0.00	094.94	097.42	127.00	0.00	096.95	097.24	097.27	097.22
13	20.90	0.00	?UNDEF	000.00	20.30	0.00	095.16	097.37	104.40	0.00	097.04	097.21	097.38	097.41
14	17.70	0.00	?UNDEF	000.00	18.40	0.00	095.04	097.99	96.80	0.00	097.03	097.25	097.42	097.76
15	17.40	0.00	?UNDEF	000.00	18.50	0.00	095.13	097.60	106.40	0.00	097.09	097.15	097.69	098.05
16	21.30	0.00	?UNDEF	000.00	19.30	0.00	095.12	097.48	98.50	0.00	097.24	097.18	097.59	098.31
17	16.90	0.00	?UNDEF	000.00	18.10	0.00	095.26	097.43	72.40	0.00	097.38	097.47	097.48	098.47
18	16.70	0.00	?UNDEF	000.00	18.10	0.00	095.24	097.37	77.30	0.00	097.47	097.20	097.51	098.36
19	16.80	0.00	?UNDEF	000.00	18.10	0.00	095.26	097.21	92.10	0.00	097.42	097.23	097.23	098.35
20	16.80	0.00	?UNDEF	000.00	18.00	0.00	095.25	097.03	88.40	0.00	097.37	097.43	097.12	098.33
21	16.80	0.00	?UNDEF	000.00	18.30	0.00	095.30	097.08	85.20	0.00	097.26	097.45	096.97	098.22
22	16.70	0.00	?UNDEF	000.00	18.00	0.00	095.33	096.95	84.50	0.00	097.35	097.39	097.04	098.01
23	18.30	0.00	?UNDEF	000.00	17.90	0.00	095.36	096.87	87.80	0.00	097.34	097.52	097.02	098.03
24	13.50	0.00	?UNDEF	000.00	13.00	0.00	095.36	096.76	84.60	0.00	097.23	097.43	096.93	098.03

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HOUR	DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
	TOTAL DISCH. KCFS	SPILL KCFS	GAS TAILW.	%SAT	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	
1	1.50	0.00	104.22	?UNDEF	?UNDEF	?UNDEF	?UNDEF	13.00	0.00	095.52	097.03	13.50	0.00	?UNDEF	?UNDEF	
2	1.40	0.00	104.24	?UNDEF	?UNDEF	?UNDEF	?UNDEF	13.30	0.00	095.41	096.62	13.50	0.00	?UNDEF	?UNDEF	
3	1.40	0.00	104.18	?UNDEF	?UNDEF	?UNDEF	?UNDEF	13.10	0.00	095.39	096.73	15.30	0.00	?UNDEF	?UNDEF	
4	1.40	0.00	103.95	?UNDEF	?UNDEF	?UNDEF	?UNDEF	13.00	0.00	095.62	096.65	13.50	0.00	?UNDEF	?UNDEF	
5	1.50	0.00	103.93	?UNDEF	?UNDEF	?UNDEF	?UNDEF	13.10	0.00	095.69	096.50	15.10	0.00	?UNDEF	?UNDEF	
6	1.40	0.00	103.91	?UNDEF	?UNDEF	?UNDEF	?UNDEF	13.10	0.00	095.52	096.47	13.60	0.00	?UNDEF	?UNDEF	
7	1.40	0.00	103.99	?UNDEF	?UNDEF	?UNDEF	?UNDEF	13.00	0.00	095.55	096.49	15.10	0.00	?UNDEF	?UNDEF	
8	1.50	0.00	104.11	?UNDEF	?UNDEF	?UNDEF	?UNDEF	17.70	0.00	095.29	096.50	13.90	0.00	?UNDEF	?UNDEF	
9	1.40	0.00	104.16	?UNDEF	?UNDEF	?UNDEF	?UNDEF	17.80	0.00	095.41	096.44	13.70	0.00	?UNDEF	?UNDEF	
10	1.40	0.00	104.07	?UNDEF	?UNDEF	?UNDEF	?UNDEF	17.00	0.00	095.47	096.47	13.70	0.00	?UNDEF	?UNDEF	
11	1.40	0.00	104.47	?UNDEF	?UNDEF	?UNDEF	?UNDEF	16.80	0.00	095.32	096.53	13.90	0.00	?UNDEF	?UNDEF	
12	1.50	0.00	104.67	?UNDEF	?UNDEF	?UNDEF	?UNDEF	16.90	0.00	095.42	096.54	13.90	0.00	?UNDEF	?UNDEF	
13	1.50	0.00	104.79	?UNDEF	?UNDEF	?UNDEF	?UNDEF	17.20	0.00	095.46	096.51	14.30	0.00	?UNDEF	?UNDEF	
14	1.40	0.00	103.80	?UNDEF	?UNDEF	?UNDEF	?UNDEF	17.00	0.00	095.44	096.49	14.00	0.00	?UNDEF	?UNDEF	
15	1.50	0.00	105.78	?UNDEF	?UNDEF	?UNDEF	?UNDEF	18.60	0.00	095.52	096.69	14.10	0.00	?UNDEF	?UNDEF	
16	1.50	0.00	107.89	?UNDEF	?UNDEF	?UNDEF	?UNDEF	17.00	0.00	095.46	096.61	14.20	0.00	?UNDEF	?UNDEF	
17	1.60	0.00	106.09	?UNDEF	?UNDEF	?UNDEF	?UNDEF	16.90	0.00	095.24	096.56	14.20	0.00	?UNDEF	?UNDEF	
18	1.50	0.00	105.09	?UNDEF	?UNDEF	?UNDEF	?UNDEF	19.00	0.00	095.19	096.64	14.50	0.00	?UNDEF	?UNDEF	
19	1.50	0.00	106.09	?UNDEF	?UNDEF	?UNDEF	?UNDEF	17.10	0.00	095.04	096.30	17.20	0.00	?UNDEF	?UNDEF	
20	1.50	0.00	104.94	?UNDEF	?UNDEF	?UNDEF	?UNDEF	17.00	0.00	094.86	096.08	18.90	0.00	?UNDEF	?UNDEF	
21	1.50	0.00	105.24	?UNDEF	?UNDEF	?UNDEF	?UNDEF	16.90	0.00	094.80	095.84	19.40	0.00	?UNDEF	?UNDEF	
22	1.50	0.00	104.99	?UNDEF	?UNDEF	?UNDEF	?UNDEF	16.10	0.00	094.57	095.66	14.80	0.00	?UNDEF	?UNDEF	
23	1.50	0.00	104.73	?UNDEF	?UNDEF	?UNDEF	?UNDEF	14.60	0.00	094.47	095.53	14.50	0.00	?UNDEF	?UNDEF	
24	1.50	0.00	104.65	?UNDEF	?UNDEF	?UNDEF	?UNDEF	13.30	0.00	094.47	095.36	13.90	0.00	?UNDEF	?UNDEF	
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT		
1	13.50	0.00	?UNDEF	000.00	12.40	0.00	096.90	098.59	88.10	0.00	098.82	099.14	098.60	098.61		
2	15.00	0.00	?UNDEF	000.00	12.50	0.00	096.84	098.24	85.00	0.00	098.80	099.10	098.54	098.31		
3	13.50	0.00	?UNDEF	000.00	12.70	0.00	096.67	098.11	87.10	0.00	098.65	099.16	098.52	098.12		
4	13.50	0.00	?UNDEF	000.00	12.50	0.00	096.79	098.08	101.50	0.00	098.61	098.92	098.35	098.03		
5	13.60	0.00	?UNDEF	000.00	12.50	0.00	096.70	098.02	102.60	0.00	098.49	098.96	098.30	098.05		
6	13.70	0.00	?UNDEF	000.00	12.50	0.00	096.70	097.87	111.30	0.00	098.44	098.61	098.19	098.01		
7	15.10	0.00	?UNDEF	000.00	14.30	0.00	096.53	097.79	110.80	0.00	098.32	098.61	098.13	098.02		
8	13.40	0.00	?UNDEF	000.00	12.80	0.00	096.38	097.77	106.20	0.00	098.16	098.61	098.08	097.84		
9	13.80	0.00	?UNDEF	000.00	13.10	0.00	096.24	097.90	101.70	0.00	098.09	098.42	097.98	097.76		
10	15.20	0.00	?UNDEF	000.00	12.90	0.00	096.39	098.04	104.40	0.00	098.06	098.47	098.05	097.83		
11	13.70	0.00	?UNDEF	000.00	11.40	0.00	096.26	098.37	86.70	0.00	097.95	098.56	098.17	097.87		
12	13.60	0.00	?UNDEF	000.00	12.90	0.00	096.21	102.31	88.00	0.00	097.82	098.42	098.26	098.08		
13	13.80	0.00	?UNDEF	000.00	16.00	0.00	096.19	107.32	85.00	0.00	097.88	098.43	098.37	098.25		
14	13.90	0.00	?UNDEF	000.00	19.90	0.00	095.97	107.15	75.50	0.00	097.84	098.30	098.25	098.42		
15	13.90	0.00	?UNDEF	000.00	19.10	0.00	095.82	106.10	76.40	0.00	097.75	098.23	098.21	098.67		
16	13.60	0.00	?UNDEF	000.00	13.30	0.00	095.72	103.65	78.10	0.00	097.74	098.16	098.12	098.73		
17	13.60	0.00	?UNDEF	000.00	11.40	0.00	095.87	100.69	80.90	0.00	097.71	098.16	098.02	098.62		
18	13.70	0.00	?UNDEF	000.00	11.40	0.00	095.64	100.35	87.60	0.00	097.58	098.18	097.85	098.44		
19	17.50	0.00	?UNDEF	000.00	12.90	0.00	095.55	098.74	102.10	0.00	097.52	098.11	097.64	098.21		
20	17.50	0.00	?UNDEF	000.00	12.70	0.00	095.40	098.40	116.40	0.00	097.53	097.82	097.42	097.99		
21	17.50	0.00	?UNDEF	000.00	12.80	0.00	095.31	098.41	127.70	0.00	097.42	097.58	097.32	097.61		
22	17.50	0.00	?UNDEF	000.00	13.00	0.00	095.22	097.90	126.40	0.00	097.05	097.49	097.10	097.39		
23	15.60	0.00	?UNDEF	000.00	12.70	0.00	095.17	097.74	126.60	0.00	097.12	097.30	097.06	097.23		
24	14.20	0.00	?UNDEF	000.00	12.60	0.00	095.09	097.70	122.20	0.00	097.11	097.27	097.05	097.23		

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DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.
1	1.50	0.00	104.01	?UNDEF	?UNDEF	?UNDEF	17.40	0.00	095.56	096.24	25.10	0.00	?UNDEF	?UNDEF
2	1.40	0.00	104.08	?UNDEF	?UNDEF	?UNDEF	14.70	0.00	095.60	096.27	26.60	0.00	?UNDEF	?UNDEF
3	1.40	0.00	104.10	?UNDEF	?UNDEF	?UNDEF	16.30	0.00	095.62	096.28	26.40	0.00	?UNDEF	?UNDEF
4	1.40	0.00	104.16	?UNDEF	?UNDEF	?UNDEF	18.30	0.00	095.53	096.82	26.90	0.00	?UNDEF	?UNDEF
5	1.40	0.00	104.08	?UNDEF	?UNDEF	?UNDEF	20.40	0.00	095.27	096.46	18.40	0.00	?UNDEF	?UNDEF
6	1.50	0.00	103.90	?UNDEF	?UNDEF	?UNDEF	14.80	0.00	095.00	096.63	14.20	0.00	?UNDEF	?UNDEF
7	1.40	0.00	104.01	?UNDEF	?UNDEF	?UNDEF	16.70	0.00	094.58	096.47	19.30	0.00	?UNDEF	?UNDEF
8	1.40	0.00	103.89	?UNDEF	?UNDEF	?UNDEF	16.70	0.00	094.49	096.26	15.10	0.00	?UNDEF	?UNDEF
9	1.50	0.00	103.91	?UNDEF	?UNDEF	?UNDEF	17.00	0.00	094.41	096.26	14.50	0.00	?UNDEF	?UNDEF
10	1.50	0.00	104.47	?UNDEF	?UNDEF	?UNDEF	15.50	0.00	094.41	096.44	14.50	0.00	?UNDEF	?UNDEF
11	1.40	0.00	104.64	?UNDEF	?UNDEF	?UNDEF	15.20	0.00	094.74	096.31	13.70	0.00	?UNDEF	?UNDEF
12	1.40	0.00	105.22	?UNDEF	?UNDEF	?UNDEF	15.20	0.00	094.88	096.47	13.90	0.00	?UNDEF	?UNDEF
13	1.40	0.00	105.41	?UNDEF	?UNDEF	?UNDEF	14.80	0.00	094.95	096.56	12.80	0.00	?UNDEF	?UNDEF
14	1.40	0.00	105.38	?UNDEF	?UNDEF	?UNDEF	14.60	0.00	094.86	096.49	12.70	0.00	?UNDEF	?UNDEF
15	1.50	0.00	105.30	?UNDEF	?UNDEF	?UNDEF	14.90	0.00	095.19	096.77	12.70	0.00	?UNDEF	?UNDEF
16	1.40	0.00	105.17	?UNDEF	?UNDEF	?UNDEF	14.60	0.00	095.45	096.89	12.60	0.00	?UNDEF	?UNDEF
17	1.40	0.00	104.91	?UNDEF	?UNDEF	?UNDEF	14.60	0.00	096.31	096.96	12.80	0.00	?UNDEF	?UNDEF
18	1.40	0.00	104.85	?UNDEF	?UNDEF	?UNDEF	14.50	0.00	096.58	097.25	12.50	0.00	?UNDEF	?UNDEF
19	1.40	0.00	104.91	?UNDEF	?UNDEF	?UNDEF	13.00	0.00	096.79	097.29	11.90	0.00	?UNDEF	?UNDEF
20	1.50	0.00	104.84	?UNDEF	?UNDEF	?UNDEF	12.90	0.00	096.93	097.50	13.30	0.00	?UNDEF	?UNDEF
21	1.40	0.00	104.94	?UNDEF	?UNDEF	?UNDEF	14.90	0.00	096.70	097.58	15.20	0.00	?UNDEF	?UNDEF
22	1.40	0.00	104.99	?UNDEF	?UNDEF	?UNDEF	14.60	0.00	096.27	098.07	13.70	0.00	?UNDEF	?UNDEF
23	1.40	0.00	104.78	?UNDEF	?UNDEF	?UNDEF	13.10	0.00	095.93	098.10	13.70	0.00	?UNDEF	?UNDEF
24	1.40	0.00	104.47	?UNDEF	?UNDEF	?UNDEF	13.20	0.00	095.62	097.53	15.00	0.00	?UNDEF	?UNDEF
LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT
1	22.00	0.00	?UNDEF	000.00	21.50	0.00	096.23	097.80	66.80	0.00	098.18	098.67	098.41	098.99
2	23.30	0.00	?UNDEF	000.00	21.60	0.00	096.24	097.65	54.70	0.00	098.06	098.67	098.51	098.91
3	27.50	0.00	?UNDEF	000.00	25.30	0.00	096.30	097.70	57.90	0.00	098.09	098.67	098.56	098.80
4	26.10	0.00	?UNDEF	000.00	25.00	0.00	096.30	097.70	60.30	0.00	098.04	098.65	098.50	098.79
5	26.10	0.00	?UNDEF	000.00	25.10	0.00	096.17	097.74	74.00	0.00	098.03	098.61	098.51	098.64
6	18.30	0.00	?UNDEF	000.00	26.70	0.00	096.19	097.56	60.60	0.00	098.07	098.77	098.63	098.64
7	25.90	0.00	?UNDEF	000.00	25.20	0.00	096.16	097.46	64.50	0.00	098.07	098.77	098.65	098.48
8	19.20	0.00	?UNDEF	000.00	21.00	0.00	096.15	097.42	65.70	0.00	098.02	098.89	098.48	098.45
9	17.90	0.00	?UNDEF	000.00	18.70	0.00	096.14	097.69	64.60	0.00	098.16	098.63	098.48	098.48
10	15.70	0.00	?UNDEF	000.00	19.60	0.00	096.15	097.93	67.80	0.00	098.18	098.77	098.76	098.48
11	15.20	0.00	?UNDEF	000.00	20.60	0.00	096.24	097.96	67.50	0.00	098.11	098.95	098.96	098.67
12	15.00	0.00	?UNDEF	000.00	12.70	0.00	096.26	101.32	66.70	0.00	098.27	099.03	099.18	098.85
13	15.10	0.00	?UNDEF	000.00	14.80	0.00	096.37	103.67	67.00	0.00	098.27	099.11	099.14	098.95
14	15.40	0.00	?UNDEF	000.00	20.30	0.00	096.47	100.76	68.00	0.00	098.66	099.02	099.21	099.22
15	15.00	0.00	?UNDEF	000.00	14.50	0.00	096.61	099.54	69.50	0.00	098.85	099.44	099.08	099.36
16	16.70	0.00	?UNDEF	000.00	12.70	0.00	096.89	099.69	69.40	0.00	099.09	100.08	099.20	099.61
17	14.90	0.00	?UNDEF	000.00	12.70	0.00	097.11	099.93	67.40	0.00	099.18	100.32	099.29	099.85
18	16.40	0.00	?UNDEF	000.00	14.10	0.00	097.31	100.09	74.20	0.00	099.43	100.07	099.37	100.11
19	13.70	0.00	?UNDEF	000.00	11.40	0.00	097.37	099.84	72.10	0.00	099.37	099.81	099.31	099.96
20	13.50	0.00	?UNDEF	000.00	12.80	0.00	097.48	100.58	70.70	0.00	099.29	099.45	099.32	099.87
21	13.60	0.00	?UNDEF	000.00	12.90	0.00	097.25	102.09	88.40	0.00	099.26	099.74	099.57	099.64
22	13.50	0.00	?UNDEF	000.00	13.00	0.00	097.03	100.44	89.10	0.00	099.02	099.79	099.22	099.29
23	13.40	0.00	?UNDEF	000.00	12.90	0.00	096.89	100.01	90.50	0.00	099.08	099.54	098.85	099.11
24	13.70	0.00	?UNDEF	000.00	12.50	0.00	096.97	099.07	93.60	0.00	098.86	099.26	098.73	099.11

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DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.
1	1.50	0.00	103.70	?UNDEF	?UNDEF	?UNDEF	13.80	0.00	096.87	096.69	13.00	0.00	?UNDEF	?UNDEF
2	1.40	0.00	103.69	?UNDEF	?UNDEF	?UNDEF	13.80	0.00	096.38	096.46	13.10	0.00	?UNDEF	?UNDEF
3	1.40	0.00	103.61	?UNDEF	?UNDEF	?UNDEF	15.60	0.00	095.96	096.44	13.00	0.00	?UNDEF	?UNDEF
4	1.40	0.00	103.61	?UNDEF	?UNDEF	?UNDEF	14.30	0.00	096.40	097.15	12.90	0.00	?UNDEF	?UNDEF
5	1.40	0.00	103.64	?UNDEF	?UNDEF	?UNDEF	14.10	0.00	096.64	096.74	12.70	0.00	?UNDEF	?UNDEF
6	1.50	0.00	103.65	?UNDEF	?UNDEF	?UNDEF	13.60	0.00	096.40	096.87	12.80	0.00	?UNDEF	?UNDEF
7	1.40	0.00	103.79	?UNDEF	?UNDEF	?UNDEF	13.70	0.00	096.13	096.73	14.10	0.00	?UNDEF	?UNDEF
8	1.40	0.00	103.62	?UNDEF	?UNDEF	?UNDEF	13.70	0.00	095.99	096.64	12.60	0.00	?UNDEF	?UNDEF
9	1.40	0.00	103.76	?UNDEF	?UNDEF	?UNDEF	13.90	0.00	095.98	096.50	14.00	0.00	?UNDEF	?UNDEF
10	1.40	0.00	104.16	?UNDEF	?UNDEF	?UNDEF	13.60	0.00	095.86	096.22	14.20	0.00	?UNDEF	?UNDEF
11	1.50	0.00	104.68	?UNDEF	?UNDEF	?UNDEF	16.20	0.00	095.73	096.23	17.10	0.00	?UNDEF	?UNDEF
12	1.40	0.00	105.20	?UNDEF	?UNDEF	?UNDEF	16.60	0.00	095.76	096.39	17.00	0.00	?UNDEF	?UNDEF
13	1.40	0.00	105.46	?UNDEF	?UNDEF	?UNDEF	16.90	0.00	095.65	096.55	17.30	0.00	?UNDEF	?UNDEF
14	1.40	0.00	105.85	?UNDEF	?UNDEF	?UNDEF	16.60	0.00	095.65	096.58	17.30	0.00	?UNDEF	?UNDEF
15	1.50	0.00	105.71	?UNDEF	?UNDEF	?UNDEF	16.60	0.00	095.30	096.31	19.00	0.00	?UNDEF	?UNDEF
16	1.40	0.00	105.25	?UNDEF	?UNDEF	?UNDEF	16.60	0.00	095.28	096.34	17.20	0.00	?UNDEF	?UNDEF
17	1.40	0.00	104.55	?UNDEF	?UNDEF	?UNDEF	16.70	0.00	094.90	096.34	17.30	0.00	?UNDEF	?UNDEF
18	1.40	0.00	104.40	?UNDEF	?UNDEF	?UNDEF	17.00	0.00	094.56	096.30	17.40	0.00	?UNDEF	?UNDEF
19	1.40	0.00	104.55	?UNDEF	?UNDEF	?UNDEF	16.80	0.00	095.12	096.17	17.20	0.00	?UNDEF	?UNDEF
20	1.50	0.00	104.02	?UNDEF	?UNDEF	?UNDEF	18.40	0.00	095.50	096.26	17.50	0.00	?UNDEF	?UNDEF
21	1.40	0.00	104.01	?UNDEF	?UNDEF	?UNDEF	18.30	0.00	095.68	097.00	20.80	0.00	?UNDEF	?UNDEF
22	1.40	0.00	104.10	?UNDEF	?UNDEF	?UNDEF	16.90	0.00	095.63	096.67	21.90	0.00	?UNDEF	?UNDEF
23	1.40	0.00	104.13	?UNDEF	?UNDEF	?UNDEF	16.30	0.00	095.51	096.46	21.80	0.00	?UNDEF	?UNDEF
24	1.40	0.00	104.03	?UNDEF	?UNDEF	?UNDEF	15.40	0.00	095.52	096.29	22.70	0.00	?UNDEF	?UNDEF
LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT		
1	13.50	0.00	?UNDEF 000.00	12.70	0.00	096.54 097.93	58.30	0.00	099.79	099.32	098.42	099.63		
2	15.10	0.00	?UNDEF 000.00	12.70	0.00	096.55 097.97	60.80	0.00	099.52	099.09	098.27	099.52		
3	13.50	0.00	?UNDEF 000.00	12.60	0.00	096.47 098.11	61.00	0.00	099.26	098.93	098.17	099.51		
4	13.40	0.00	?UNDEF 000.00	13.80	0.00	096.47 097.87	58.40	0.00	098.88	099.08	098.17	099.53		
5	13.40	0.00	?UNDEF 000.00	12.20	0.00	096.36 097.91	58.60	0.00	098.62	098.81	098.33	099.43		
6	13.60	0.00	?UNDEF 000.00	9.60	0.00	096.34 098.44	60.90	0.00	098.38	098.96	098.18	099.31		
7	13.30	0.00	?UNDEF 000.00	13.10	0.00	096.24 098.59	61.30	0.00	098.27	098.71	098.19	099.23		
8	13.50	0.00	?UNDEF 000.00	11.80	0.00	096.23 098.20	62.10	0.00	098.27	098.87	098.33	099.09		
9	13.50	0.00	?UNDEF 000.00	12.60	0.00	096.24 098.26	62.60	0.00	098.25	098.57	098.35	098.95		
10	13.60	0.00	?UNDEF 000.00	12.70	0.00	096.11 098.64	65.10	0.00	098.27	098.84	098.48	099.00		
11	17.30	0.00	?UNDEF 000.00	12.70	0.00	096.22 098.63	65.10	0.00	098.01	099.12	098.56	099.08		
12	17.90	0.00	?UNDEF 000.00	14.70	0.00	096.26 099.16	60.70	0.00	098.39	098.95	098.80	099.08		
13	17.60	0.00	?UNDEF 000.00	17.90	0.00	096.21 098.72	59.50	0.00	098.38	098.93	098.68	099.39		
14	17.60	0.00	?UNDEF 000.00	18.00	0.00	096.24 098.64	59.40	0.00	098.50	098.83	098.71	099.40		
15	17.60	0.00	?UNDEF 000.00	18.00	0.00	096.22 098.45	59.40	0.00	098.51	098.83	098.84	099.51		
16	19.20	0.00	?UNDEF 000.00	18.00	0.00	096.24 098.91	58.80	0.00	098.39	099.09	098.87	099.64		
17	17.60	0.00	?UNDEF 000.00	18.40	0.00	096.27 098.33	61.80	0.00	098.27	099.16	098.93	099.72		
18	17.70	0.00	?UNDEF 000.00	19.50	0.00	096.24 098.21	59.80	0.00	098.27	099.16	098.80	099.73		
19	18.00	0.00	?UNDEF 000.00	18.10	0.00	096.22 098.07	59.90	0.00	098.34	098.83	098.85	099.56		
20	18.00	0.00	?UNDEF 000.00	18.10	0.00	096.26 097.92	73.70	0.00	098.35	098.55	098.93	099.37		
21	21.10	0.00	?UNDEF 000.00	20.70	0.00	096.23 098.32	74.40	0.00	098.38	098.54	098.68	099.39		
22	21.20	0.00	?UNDEF 000.00	21.80	0.00	096.27 098.05	73.60	0.00	098.34	098.64	098.41	099.25		
23	21.10	0.00	?UNDEF 000.00	21.50	0.00	096.26 097.91	59.60	0.00	098.35	098.80	098.43	099.24		
24	20.70	0.00	?UNDEF 000.00	21.40	0.00	096.18 097.76	54.40	0.00	098.21	098.68	098.42	099.24		

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HOUR	DWRSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.		
1	1.40	0.00	103.89	?UNDEF	?UNDEF	?UNDEF	13.80	0.00	095.01	096.55	13.60	0.00	?UNDEF	?UNDEF		
2	1.50	0.00	103.93	?UNDEF	?UNDEF	?UNDEF	13.70	0.00	094.80	096.26	13.40	0.00	?UNDEF	?UNDEF		
3	1.40	0.00	103.89	?UNDEF	?UNDEF	?UNDEF	13.00	0.00	094.11	095.97	13.40	0.00	?UNDEF	?UNDEF		
4	1.40	0.00	104.05	?UNDEF	?UNDEF	?UNDEF	12.90	0.00	093.70	095.84	14.90	0.00	?UNDEF	?UNDEF		
5	1.40	0.00	103.88	?UNDEF	?UNDEF	?UNDEF	13.80	0.00	093.43	095.93	14.40	0.00	?UNDEF	?UNDEF		
6	1.40	0.00	103.86	?UNDEF	?UNDEF	?UNDEF	13.50	0.00	093.24	095.74	13.90	0.00	?UNDEF	?UNDEF		
7	1.50	0.00	103.79	?UNDEF	?UNDEF	?UNDEF	16.10	0.00	092.94	095.75	15.40	0.00	?UNDEF	?UNDEF		
8	1.40	0.00	103.75	?UNDEF	?UNDEF	?UNDEF	16.40	0.00	092.78	095.68	16.00	0.00	?UNDEF	?UNDEF		
9	1.40	0.00	103.71	?UNDEF	?UNDEF	?UNDEF	16.10	0.00	092.73	095.66	16.80	0.00	?UNDEF	?UNDEF		
10	1.40	0.00	104.07	?UNDEF	?UNDEF	?UNDEF	17.80	0.00	092.96	095.76	15.30	0.00	?UNDEF	?UNDEF		
11	1.50	0.00	104.37	?UNDEF	?UNDEF	?UNDEF	15.30	0.00	092.85	096.17	15.60	0.00	?UNDEF	?UNDEF		
12	1.40	0.00	104.69	?UNDEF	?UNDEF	?UNDEF	13.10	0.00	093.40	096.05	15.30	0.00	?UNDEF	?UNDEF		
13	1.40	0.00	105.00	?UNDEF	?UNDEF	?UNDEF	13.10	0.00	093.58	095.96	15.30	0.00	?UNDEF	?UNDEF		
14	1.40	0.00	105.19	?UNDEF	?UNDEF	?UNDEF	13.50	0.00	093.79	096.17	16.70	0.00	?UNDEF	?UNDEF		
15	1.40	0.00	105.25	?UNDEF	?UNDEF	?UNDEF	13.40	0.00	095.07	096.23	13.80	0.00	?UNDEF	?UNDEF		
16	1.50	0.00	105.16	?UNDEF	?UNDEF	?UNDEF	13.40	0.00	095.91	096.27	13.80	0.00	?UNDEF	?UNDEF		
17	1.40	0.00	105.06	?UNDEF	?UNDEF	?UNDEF	17.30	0.00	097.27	096.55	13.80	0.00	?UNDEF	?UNDEF		
18	1.40	0.00	104.70	?UNDEF	?UNDEF	?UNDEF	16.40	0.00	098.14	096.59	14.40	0.00	?UNDEF	?UNDEF		
19	1.40	0.00	105.06	?UNDEF	?UNDEF	?UNDEF	17.60	0.00	098.01	096.43	17.20	0.00	?UNDEF	?UNDEF		
20	1.40	0.00	103.69	?UNDEF	?UNDEF	?UNDEF	18.00	0.00	098.02	096.40	17.90	0.00	?UNDEF	?UNDEF		
21	1.50	0.00	103.69	?UNDEF	?UNDEF	?UNDEF	16.30	0.00	097.90	096.82	17.50	0.00	?UNDEF	?UNDEF		
22	1.40	0.00	103.80	?UNDEF	?UNDEF	?UNDEF	16.30	0.00	097.84	097.11	17.40	0.00	?UNDEF	?UNDEF		
23	1.40	0.00	103.82	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	097.61	097.13	13.20	0.00	?UNDEF	?UNDEF		
24	1.40	0.00	103.87	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	097.41	097.06	14.40	0.00	?UNDEF	?UNDEF		
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT		
1	13.60	0.00	?UNDEF	000.00	12.80	0.00	095.53	097.73	56.60	0.00	099.25	098.46	097.90	099.96		
2	13.70	0.00	?UNDEF	000.00	12.80	0.00	095.37	097.33	56.50	0.00	099.09	098.49	097.85	099.80		
3	15.30	0.00	?UNDEF	000.00	11.30	0.00	095.38	097.17	56.40	0.00	099.05	098.17	097.70	099.64		
4	13.50	0.00	?UNDEF	000.00	11.30	0.00	095.40	097.19	56.50	0.00	099.10	098.25	097.85	099.50		
5	13.60	0.00	?UNDEF	000.00	12.70	0.00	095.35	097.58	58.90	0.00	098.97	098.33	097.73	099.26		
6	14.10	0.00	?UNDEF	000.00	10.70	0.00	095.32	098.35	59.20	0.00	098.95	098.20	097.72	098.97		
7	14.70	0.00	?UNDEF	000.00	12.50	0.00	095.30	098.33	62.40	0.00	098.89	098.16	097.80	098.82		
8	16.30	0.00	?UNDEF	000.00	14.70	0.00	095.27	097.84	67.00	0.00	098.88	098.36	097.77	098.64		
9	18.10	0.00	?UNDEF	000.00	13.00	0.00	095.24	097.72	65.50	0.00	098.85	098.54	097.89	098.49		
10	16.50	0.00	?UNDEF	000.00	17.90	0.00	095.24	099.03	64.20	0.00	099.14	098.81	098.17	098.60		
11	16.50	0.00	?UNDEF	000.00	18.00	0.00	095.40	098.37	62.90	0.00	099.37	098.91	098.55	098.76		
12	16.80	0.00	?UNDEF	000.00	18.10	0.00	095.56	098.87	62.40	0.00	099.85	099.24	099.11	098.89		
13	15.80	0.00	?UNDEF	000.00	18.40	0.00	095.77	098.82	62.70	0.00	100.16	099.16	099.48	099.10		
14	17.40	0.00	?UNDEF	000.00	18.10	0.00	095.87	098.97	63.00	0.00	100.41	099.55	099.45	099.35		
15	14.30	0.00	?UNDEF	000.00	18.10	0.00	095.91	098.72	62.90	0.00	100.50	099.46	099.50	099.55		
16	14.90	0.00	?UNDEF	000.00	19.60	0.00	095.80	098.63	62.90	0.00	100.00	099.55	099.45	099.55		
17	14.50	0.00	?UNDEF	000.00	18.10	0.00	095.83	098.44	64.10	0.00	099.24	099.04	099.22	099.60		
18	14.30	0.00	?UNDEF	000.00	18.30	0.00	095.88	098.38	64.80	0.00	100.88	099.57	099.24	099.80		
19	16.00	0.00	?UNDEF	000.00	19.90	0.00	095.92	098.04	72.40	0.00	100.58	099.57	099.11	099.91		
20	16.20	0.00	?UNDEF	000.00	18.00	0.00	095.93	098.38	65.00	0.00	101.29	099.60	098.88	099.92		
21	16.10	0.00	?UNDEF	000.00	18.00	0.00	096.44	097.98	69.80	0.00	101.13	099.36	098.59	099.76		
22	19.60	0.00	?UNDEF	000.00	17.90	0.00	096.64	097.75	61.60	0.00	100.93	099.10	098.49	099.80		
23	19.70	0.00	?UNDEF	000.00	19.40	0.00	096.53	098.18	60.50	0.00	100.70	099.29	098.52	099.72		
24	14.10	0.00	?UNDEF	000.00	16.10	0.00	096.53	098.21	57.40	0.00	100.62	099.33	098.42	099.72		

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DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.
1	1.40	0.00	103.49	?UNDEF	?UNDEF	?UNDEF	12.20	0.00	093.24	095.75	13.50	0.00	?UNDEF	?UNDEF
2	1.40	0.00	103.44	?UNDEF	?UNDEF	?UNDEF	13.90	0.00	092.78	096.37	13.50	0.00	?UNDEF	?UNDEF
3	1.50	0.00	103.34	?UNDEF	?UNDEF	?UNDEF	12.30	0.00	093.00	096.19	13.50	0.00	?UNDEF	?UNDEF
4	1.40	0.00	103.14	?UNDEF	?UNDEF	?UNDEF	12.50	0.00	093.19	096.08	13.60	0.00	?UNDEF	?UNDEF
5	1.40	0.00	103.40	?UNDEF	?UNDEF	?UNDEF	12.40	0.00	092.77	095.95	13.90	0.00	?UNDEF	?UNDEF
6	1.40	0.00	103.59	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	092.84	095.89	13.60	0.00	?UNDEF	?UNDEF
7	1.50	0.00	103.55	?UNDEF	?UNDEF	?UNDEF	16.30	0.00	093.28	095.64	16.30	0.00	?UNDEF	?UNDEF
8	1.40	0.00	103.73	?UNDEF	?UNDEF	?UNDEF	16.50	0.00	093.74	095.29	17.70	0.00	?UNDEF	?UNDEF
9	1.40	0.00	103.81	?UNDEF	?UNDEF	?UNDEF	6.50	0.00	093.89	095.35	16.20	0.00	?UNDEF	?UNDEF
10	1.40	0.00	104.06	?UNDEF	?UNDEF	?UNDEF	16.50	0.00	093.88	096.00	13.00	0.00	?UNDEF	?UNDEF
11	1.40	0.00	104.36	?UNDEF	?UNDEF	?UNDEF	16.50	0.00	093.52	096.32	12.90	0.00	?UNDEF	?UNDEF
12	1.50	0.00	104.90	?UNDEF	?UNDEF	?UNDEF	16.60	0.00	093.39	096.46	15.50	0.00	?UNDEF	?UNDEF
13	1.40	0.00	104.94	?UNDEF	?UNDEF	?UNDEF	16.60	0.00	093.34	096.50	15.50	0.00	?UNDEF	?UNDEF
14	1.40	0.00	104.95	?UNDEF	?UNDEF	?UNDEF	16.50	0.00	093.81	096.61	15.50	0.00	?UNDEF	?UNDEF
15	1.40	0.00	104.86	?UNDEF	?UNDEF	?UNDEF	16.50	0.00	094.37	096.36	17.40	0.00	?UNDEF	?UNDEF
16	1.50	0.00	104.92	?UNDEF	?UNDEF	?UNDEF	16.20	0.00	094.98	096.18	15.60	0.00	?UNDEF	?UNDEF
17	1.40	0.00	104.81	?UNDEF	?UNDEF	?UNDEF	16.10	0.00	095.16	095.79	15.60	0.00	?UNDEF	?UNDEF
18	1.40	0.00	104.58	?UNDEF	?UNDEF	?UNDEF	17.80	0.00	095.28	095.93	15.70	0.00	?UNDEF	?UNDEF
19	1.40	0.00	104.81	?UNDEF	?UNDEF	?UNDEF	16.30	0.00	095.38	096.44	15.60	0.00	?UNDEF	?UNDEF
20	1.40	0.00	103.96	?UNDEF	?UNDEF	?UNDEF	17.70	0.00	095.23	096.00	15.90	0.00	?UNDEF	?UNDEF
21	1.50	0.00	103.68	?UNDEF	?UNDEF	?UNDEF	17.70	0.00	095.18	096.63	15.50	0.00	?UNDEF	?UNDEF
22	1.40	0.00	103.65	?UNDEF	?UNDEF	?UNDEF	15.90	0.00	095.21	096.75	15.50	0.00	?UNDEF	?UNDEF
23	1.40	0.00	103.77	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	095.06	096.18	13.70	0.00	?UNDEF	?UNDEF
24	1.40	0.00	103.77	?UNDEF	?UNDEF	?UNDEF	15.70	0.00	095.02	096.73	15.00	0.00	?UNDEF	?UNDEF
LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT
1	14.90	0.00	?UNDEF	000.00	12.50	0.00	095.09	097.02	51.90	0.00	098.55	098.28	097.96	098.47
2	13.50	0.00	?UNDEF	000.00	12.30	0.00	095.08	096.90	51.80	0.00	098.40	098.48	097.99	098.45
3	13.50	0.00	?UNDEF	000.00	12.30	0.00	095.17	096.90	51.80	0.00	098.47	098.60	098.00	098.51
4	13.40	0.00	?UNDEF	000.00	14.10	0.00	095.21	097.24	52.00	0.00	098.47	098.25	097.92	098.27
5	13.70	0.00	?UNDEF	000.00	12.30	0.00	095.22	097.26	60.40	0.00	098.38	098.16	097.84	098.03
6	13.40	0.00	?UNDEF	000.00	12.60	0.00	095.22	097.30	80.40	0.00	098.28	098.23	097.98	097.95
7	16.00	0.00	?UNDEF	000.00	12.70	0.00	095.27	097.35	105.80	0.00	098.32	098.24	097.89	097.72
8	16.20	0.00	?UNDEF	000.00	14.20	0.00	095.35	097.45	106.80	0.00	098.41	098.57	097.94	097.76
9	16.00	0.00	?UNDEF	000.00	13.10	0.00	095.31	098.06	96.60	0.00	098.40	098.56	097.95	097.93
10	13.60	0.00	?UNDEF	000.00	12.90	0.00	095.37	098.23	93.10	0.00	098.81	098.36	098.10	098.22
11	15.20	0.00	?UNDEF	000.00	12.90	0.00	095.37	097.93	90.90	0.00	098.74	098.51	098.31	098.33
12	13.50	0.00	?UNDEF	000.00	13.00	0.00	095.38	098.03	90.50	0.00	099.14	098.58	098.46	098.61
13	15.10	0.00	?UNDEF	000.00	13.00	0.00	095.63	098.92	90.60	0.00	099.23	098.49	098.65	099.14
14	15.40	0.00	?UNDEF	000.00	13.30	0.00	095.57	098.83	90.60	0.00	099.38	098.88	099.05	099.60
15	15.90	0.00	?UNDEF	000.00	13.00	0.00	095.64	098.75	90.80	0.00	099.87	099.10	099.00	100.00
16	15.80	0.00	?UNDEF	000.00	17.20	0.00	095.70	098.79	90.60	0.00	100.16	098.99	098.93	100.29
17	16.10	0.00	?UNDEF	000.00	18.00	0.00	095.87	098.77	85.80	0.00	100.08	099.17	098.97	100.49
18	16.00	0.00	?UNDEF	000.00	18.00	0.00	095.91	098.52	85.80	0.00	099.99	099.20	098.76	100.67
19	16.00	0.00	?UNDEF	000.00	18.40	0.00	095.90	098.47	79.60	0.00	099.79	099.44	098.54	100.52
20	15.90	0.00	?UNDEF	000.00	18.00	0.00	095.78	098.02	79.00	0.00	099.88	099.25	098.62	100.64
21	17.40	0.00	?UNDEF	000.00	19.50	0.00	095.73	098.19	69.00	0.00	099.73	098.90	098.40	100.69
22	15.90	0.00	?UNDEF	000.00	19.50	0.00	095.68	097.65	60.90	0.00	099.52	098.59	098.16	100.50
23	14.00	0.00	?UNDEF	000.00	18.00	0.00	095.63	097.33	56.70	0.00	099.62	098.58	098.02	100.17
24	13.70	0.00	?UNDEF	000.00	11.60	0.00	095.54	097.36	56.20	0.00	099.42	098.53	098.06	100.17

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	DWORSHAK			STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.40	0.00	102.00	?UNDEF	?UNDEF	?UNDEF	14.60	0.00	091.71	094.56	12.80	0.00	?UNDEF	?UNDEF
2	1.40	0.00	101.94	?UNDEF	?UNDEF	?UNDEF	13.40	0.00	091.41	095.64	12.90	0.00	?UNDEF	?UNDEF
3	1.40	0.00	101.94	?UNDEF	?UNDEF	?UNDEF	13.50	0.00	091.05	094.99	12.70	0.00	?UNDEF	?UNDEF
4	1.50	0.00	102.07	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	091.68	094.76	13.00	0.00	?UNDEF	?UNDEF
5	1.40	0.00	102.24	?UNDEF	?UNDEF	?UNDEF	14.40	0.00	092.09	094.59	13.30	0.00	?UNDEF	?UNDEF
6	1.40	0.00	102.19	?UNDEF	?UNDEF	?UNDEF	17.70	0.00	092.58	094.58	16.90	0.00	?UNDEF	?UNDEF
7	1.40	0.00	102.04	?UNDEF	?UNDEF	?UNDEF	18.90	0.00	092.68	094.41	21.10	0.00	?UNDEF	?UNDEF
8	1.50	0.00	102.04	?UNDEF	?UNDEF	?UNDEF	18.40	0.00	092.53	094.41	14.70	0.00	?UNDEF	?UNDEF
9	1.40	0.00	102.41	?UNDEF	?UNDEF	?UNDEF	15.30	0.00	092.80	094.26	13.00	0.00	?UNDEF	?UNDEF
10	1.40	0.00	102.78	?UNDEF	?UNDEF	?UNDEF	16.00	0.00	092.93	094.20	12.70	0.00	?UNDEF	?UNDEF
11	1.40	0.00	103.39	?UNDEF	?UNDEF	?UNDEF	16.50	0.00	092.99	094.01	12.70	0.00	?UNDEF	?UNDEF
12	1.40	0.00	104.04	?UNDEF	?UNDEF	?UNDEF	16.40	0.00	093.33	094.51	12.70	0.00	?UNDEF	?UNDEF
13	1.50	0.00	104.24	?UNDEF	?UNDEF	?UNDEF	17.00	0.00	093.29	094.64	12.80	0.00	?UNDEF	?UNDEF
14	1.40	0.00	104.55	?UNDEF	?UNDEF	?UNDEF	16.60	0.00	093.69	094.72	13.00	0.00	?UNDEF	?UNDEF
15	1.40	0.00	104.60	?UNDEF	?UNDEF	?UNDEF	17.00	0.00	093.93	094.69	18.30	0.00	?UNDEF	?UNDEF
16	1.40	0.00	104.69	?UNDEF	?UNDEF	?UNDEF	16.70	0.00	093.59	094.73	17.20	0.00	?UNDEF	?UNDEF
17	1.50	0.00	104.28	?UNDEF	?UNDEF	?UNDEF	17.80	0.00	093.76	094.91	18.20	0.00	?UNDEF	?UNDEF
18	1.40	0.00	103.88	?UNDEF	?UNDEF	?UNDEF	16.10	0.00	093.60	095.56	18.10	0.00	?UNDEF	?UNDEF
19	1.40	0.00	104.28	?UNDEF	?UNDEF	?UNDEF	14.40	0.00	093.38	095.62	18.70	0.00	?UNDEF	?UNDEF
20	1.40	0.00	103.45	?UNDEF	?UNDEF	?UNDEF	13.90	0.00	093.50	095.46	19.50	0.00	?UNDEF	?UNDEF
21	1.40	0.00	103.13	?UNDEF	?UNDEF	?UNDEF	14.10	0.00	093.60	095.33	17.10	0.00	?UNDEF	?UNDEF
22	1.50	0.00	103.16	?UNDEF	?UNDEF	?UNDEF	15.90	0.00	093.59	095.44	19.20	0.00	?UNDEF	?UNDEF
23	1.40	0.00	103.35	?UNDEF	?UNDEF	?UNDEF	12.60	0.00	093.22	095.85	13.50	0.00	?UNDEF	?UNDEF
24	1.40	0.00	103.26	?UNDEF	?UNDEF	?UNDEF	12.20	0.00	092.95	095.84	13.70	0.00	?UNDEF	?UNDEF

	LOWER MONUMENTAL					ICE HARBOR					MCNARY					PASCO
HOUR	TOTAL DISCH	SPILL	GAS FB	%SAT. TAILW.	TOTAL DISCH	SPILL	GAS FB	%SAT. TAILW.	TOTAL DISCH	SPILL	GAS FB	%SAT. TAILW.	GAS % SAT			
	KCFS	KCFS			KCFS	KCFS			KCFS	KCFS	OR FB	WA FB				
1	13.60	0.00	?UNDEF	000.00	9.50	0.00	094.30	095.95	106.20	0.00	097.70	097.51	097.14			
2	13.60	0.00	?UNDEF	000.00	9.30	0.00	094.15	095.93	80.60	0.00	097.60	097.40	096.88			
3	15.30	0.00	?UNDEF	000.00	9.40	0.00	094.17	095.83	107.60	0.00	097.47	097.26	097.04			
4	13.80	0.00	?UNDEF	000.00	9.30	0.00	094.22	095.91	145.70	0.00	097.55	097.21	097.50			
5	13.80	0.00	?UNDEF	000.00	9.30	0.00	094.24	096.08	148.50	0.00	097.43	097.61	097.60			
6	15.40	0.00	?UNDEF	000.00	14.00	0.00	094.41	096.12	149.30	0.00	097.46	097.46	097.49			
7	16.80	0.00	?UNDEF	000.00	12.80	0.00	094.43	096.52	148.30	0.00	097.44	097.63	097.39			
8	14.50	0.00	?UNDEF	000.00	12.90	0.00	094.42	096.93	112.70	0.00	097.60	097.62	097.26			
9	14.00	0.00	?UNDEF	000.00	18.20	0.00	094.54	097.35	98.80	0.00	097.70	097.73	097.36			
10	13.80	0.00	?UNDEF	000.00	19.40	0.00	094.55	098.40	78.30	0.00	097.73	098.02	097.50			
11	13.60	0.00	?UNDEF	000.00	17.90	0.00	094.42	097.73	64.50	0.00	098.11	098.19	097.63			
12	15.10	0.00	?UNDEF	000.00	19.40	0.00	094.69	100.05	64.20	0.00	098.44	098.49	097.74			
13	15.10	0.00	?UNDEF	000.00	17.90	0.00	094.78	099.15	74.60	0.00	098.97	098.22	098.12			
14	13.50	0.00	?UNDEF	000.00	18.20	0.00	094.84	098.21	88.20	0.00	099.46	098.33	098.53			
15	15.20	0.00	?UNDEF	000.00	17.90	0.00	095.10	098.23	89.30	0.00	099.74	097.90	098.47			
16	19.30	0.00	?UNDEF	000.00	17.90	0.00	095.04	098.07	99.80	0.00	100.24	098.28	098.47			
17	17.90	0.00	?UNDEF	000.00	17.90	0.00	095.04	097.63	106.30	0.00	100.49	098.57	098.36			
18	17.90	0.00	?UNDEF	000.00	17.80	0.00	095.08	097.55	120.00	0.00	100.16	098.84	098.30			
19	17.80	0.00	?UNDEF	000.00	19.70	0.00	095.11	097.41	128.20	0.00	098.71	099.44	098.30			
20	17.50	0.00	?UNDEF	000.00	17.80	0.00	095.11	097.18	129.30	0.00	098.54	098.97	098.35			
21	17.50	0.00	?UNDEF	000.00	17.90	0.00	094.95	097.00	117.30	0.00	098.39	098.84	098.21			
22	17.70	0.00	?UNDEF	000.00	18.00	0.00	095.06	096.97	87.10	0.00	099.29	098.38	098.05			
23	13.50	0.00	?UNDEF	000.00	12.60	0.00	095.02	097.08	61.50	0.00	098.87	098.64	097.90			
24	13.40	0.00	?UNDEF	000.00	12.60	0.00	095.03	097.41	54.90	0.00	098.77	098.55	097.95			

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DWRSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.
1	1.40	0.00	103.20	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	091.96	095.38	13.90	0.00	?UNDEF	?UNDEF
2	1.40	0.00	103.05	?UNDEF	?UNDEF	?UNDEF	13.90	0.00	091.59	094.76	13.90	0.00	?UNDEF	?UNDEF
3	1.40	0.00	103.11	?UNDEF	?UNDEF	?UNDEF	14.30	0.00	091.25	094.43	14.10	0.00	?UNDEF	?UNDEF
4	1.50	0.00	102.85	?UNDEF	?UNDEF	?UNDEF	14.10	0.00	090.65	094.22	13.90	0.00	?UNDEF	?UNDEF
5	1.40	0.00	102.60	?UNDEF	?UNDEF	?UNDEF	17.70	0.00	090.88	094.17	14.10	0.00	?UNDEF	?UNDEF
6	1.40	0.00	102.34	?UNDEF	?UNDEF	?UNDEF	19.70	0.00	090.84	094.55	17.50	0.00	?UNDEF	?UNDEF
7	1.40	0.00	102.41	?UNDEF	?UNDEF	?UNDEF	18.80	0.00	090.58	094.41	17.80	0.00	?UNDEF	?UNDEF
8	1.40	0.00	102.24	?UNDEF	?UNDEF	?UNDEF	18.40	0.00	090.74	094.07	19.50	0.00	?UNDEF	?UNDEF
9	1.50	0.00	102.48	?UNDEF	?UNDEF	?UNDEF	20.30	0.00	090.70	094.01	17.90	0.00	?UNDEF	?UNDEF
10	1.40	0.00	102.66	?UNDEF	?UNDEF	?UNDEF	18.60	0.00	090.49	094.83	19.80	0.00	?UNDEF	?UNDEF
11	1.40	0.00	102.86	?UNDEF	?UNDEF	?UNDEF	16.60	0.00	090.74	094.57	20.20	0.00	?UNDEF	?UNDEF
12	1.40	0.00	103.30	?UNDEF	?UNDEF	?UNDEF	16.80	0.00	090.79	094.47	20.20	0.00	?UNDEF	?UNDEF
13	1.40	0.00	103.88	?UNDEF	?UNDEF	?UNDEF	16.50	0.00	090.65	094.36	19.20	0.00	?UNDEF	?UNDEF
14	1.50	0.00	104.26	?UNDEF	?UNDEF	?UNDEF	16.50	0.00	090.84	094.43	18.50	0.00	?UNDEF	?UNDEF
15	1.40	0.00	104.48	?UNDEF	?UNDEF	?UNDEF	16.50	0.00	091.22	094.53	18.50	0.00	?UNDEF	?UNDEF
16	1.40	0.00	104.45	?UNDEF	?UNDEF	?UNDEF	16.50	0.00	090.97	094.50	18.60	0.00	?UNDEF	?UNDEF
17	1.40	0.00	104.36	?UNDEF	?UNDEF	?UNDEF	16.70	0.00	091.49	094.57	18.60	0.00	?UNDEF	?UNDEF
18	1.50	0.00	103.58	?UNDEF	?UNDEF	?UNDEF	14.50	0.00	091.60	094.50	18.90	0.00	?UNDEF	?UNDEF
19	1.40	0.00	104.36	?UNDEF	?UNDEF	?UNDEF	14.40	0.00	091.53	094.28	18.70	0.00	?UNDEF	?UNDEF
20	1.40	0.00	102.38	?UNDEF	?UNDEF	?UNDEF	16.10	0.00	091.47	094.07	18.50	0.00	?UNDEF	?UNDEF
21	1.40	0.00	102.23	?UNDEF	?UNDEF	?UNDEF	14.40	0.00	092.12	094.47	14.80	0.00	?UNDEF	?UNDEF
22	1.40	0.00	102.31	?UNDEF	?UNDEF	?UNDEF	14.40	0.00	092.35	094.73	14.70	0.00	?UNDEF	?UNDEF
23	1.50	0.00	102.14	?UNDEF	?UNDEF	?UNDEF	14.70	0.00	091.91	094.53	16.40	0.00	?UNDEF	?UNDEF
24	1.40	0.00	102.08	?UNDEF	?UNDEF	?UNDEF	12.50	0.00	091.59	094.35	14.20	0.00	?UNDEF	?UNDEF

	LOWER MONUMENTAL				:	ICE HARBOR				:	MCNARY				:	PASCO
HOUR	TOTAL DISCH	SPILL	GAS	%SAT.	:	TOTAL DISCH	SPILL	GAS	%SAT.	:	TOTAL DISCH	SPILL	GAS	%SAT.	:	GAS
	KCFS	KCFS	FB	TAILW.	:	KCFS	KCFS	FB	TAILW.	:	KCFS	KCFS	OR FB	WA FB	:	% SAT
1	13.80	0.00	?UNDEF	000.00	:	12.70	0.00	094.60	096.36	:	76.80	0.00	098.16	097.54	:	098.84
2	13.80	0.00	?UNDEF	000.00	:	13.00	0.00	094.34	096.14	:	92.40	0.00	098.07	097.63	:	098.37
3	13.80	0.00	?UNDEF	000.00	:	14.60	0.00	094.60	096.15	:	99.60	0.00	097.88	097.43	:	098.21
4	13.90	0.00	?UNDEF	000.00	:	12.90	0.00	094.46	096.39	:	123.10	0.00	097.90	097.54	:	097.92
5	16.50	0.00	?UNDEF	000.00	:	13.30	0.00	094.41	097.30	:	103.50	0.00	097.60	097.49	:	097.74
6	18.60	0.00	?UNDEF	000.00	:	14.60	0.00	094.39	096.74	:	107.00	0.00	097.56	097.32	:	097.62
7	18.30	0.00	?UNDEF	000.00	:	12.70	0.00	094.21	096.57	:	97.60	0.00	097.39	097.30	:	097.41
8	18.50	0.00	?UNDEF	000.00	:	12.60	0.00	094.15	097.02	:	96.40	0.00	097.18	097.11	:	097.38
9	18.40	0.00	?UNDEF	000.00	:	14.40	0.00	094.10	096.51	:	106.30	0.00	097.10	097.28	:	097.30
10	21.00	0.00	?UNDEF	000.00	:	22.60	0.00	094.35	097.53	:	99.60	0.00	097.07	097.13	:	097.38
11	21.20	0.00	?UNDEF	000.00	:	20.70	0.00	094.36	097.26	:	100.30	0.00	097.21	097.41	:	097.56
12	21.30	0.00	?UNDEF	000.00	:	22.20	0.00	094.54	097.96	:	100.40	0.00	097.31	097.35	:	098.02
13	22.90	0.00	?UNDEF	000.00	:	23.40	0.00	094.46	098.18	:	100.50	0.00	099.06	097.25	:	098.29
14	21.00	0.00	?UNDEF	000.00	:	23.60	0.00	094.53	097.96	:	107.10	0.00	099.44	097.50	:	098.72
15	21.10	0.00	?UNDEF	000.00	:	24.20	0.00	094.60	097.89	:	107.40	0.00	099.46	097.41	:	099.08
16	21.10	0.00	?UNDEF	000.00	:	23.80	0.00	094.57	097.20	:	108.10	0.00	099.49	097.80	:	099.30
17	22.50	0.00	?UNDEF	000.00	:	23.80	0.00	094.78	096.93	:	116.80	0.00	099.51	097.58	:	099.63
18	21.10	0.00	?UNDEF	000.00	:	25.20	0.00	094.73	096.65	:	136.20	0.00	099.36	097.75	:	099.76
19	21.00	0.00	?UNDEF	000.00	:	20.90	0.00	094.64	096.32	:	137.70	0.00	099.02	097.53	:	099.65
20	21.00	0.00	?UNDEF	000.00	:	20.60	0.00	094.59	096.09	:	146.40	0.00	099.13	097.58	:	099.33
21	21.30	0.00	?UNDEF	000.00	:	21.00	0.00	094.55	096.47	:	147.20	0.00	098.94	097.67	:	098.79
22	15.90	0.00	?UNDEF	000.00	:	20.40	0.00	094.53	096.20	:	147.30	0.00	098.52	097.67	:	098.40
23	14.40	0.00	?UNDEF	000.00	:	13.20	0.00	094.47	096.03	:	147.40	0.00	098.23	097.58	:	098.03
24	13.60	0.00	?UNDEF	000.00	:	12.80	0.00	094.44	095.99	:	122.30	0.00	097.85	097.52	:	098.03

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WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

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DWRSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	
1	1.40	0.00	103.23	?UNDEF	?UNDEF	?UNDEF	13.90	0.00	093.17	094.33	14.30	0.00	?UNDEF	?UNDEF	
2	1.40	0.00	103.11	?UNDEF	?UNDEF	?UNDEF	18.80	0.00	093.04	094.73	12.80	0.00	?UNDEF	?UNDEF	
3	1.40	0.00	103.41	?UNDEF	?UNDEF	?UNDEF	16.90	0.00	093.33	094.52	12.90	0.00	?UNDEF	?UNDEF	
4	1.40	0.00	103.30	?UNDEF	?UNDEF	?UNDEF	18.70	0.00	093.07	094.96	12.90	0.00	?UNDEF	?UNDEF	
5	1.50	0.00	103.33	?UNDEF	?UNDEF	?UNDEF	19.80	0.00	092.78	094.77	13.00	0.00	?UNDEF	?UNDEF	
6	1.40	0.00	103.34	?UNDEF	?UNDEF	?UNDEF	20.00	0.00	092.35	094.73	17.30	0.00	?UNDEF	?UNDEF	
7	1.40	0.00	103.21	?UNDEF	?UNDEF	?UNDEF	20.20	0.00	092.94	094.69	21.70	0.00	?UNDEF	?UNDEF	
8	1.40	0.00	103.29	?UNDEF	?UNDEF	?UNDEF	19.80	0.00	093.60	094.52	18.60	0.00	?UNDEF	?UNDEF	
9	1.50	0.00	103.28	?UNDEF	?UNDEF	?UNDEF	19.80	0.00	093.53	094.67	20.60	0.00	?UNDEF	?UNDEF	
10	1.40	0.00	103.72	?UNDEF	?UNDEF	?UNDEF	19.80	0.00	093.53	094.75	19.90	0.00	?UNDEF	?UNDEF	
11	1.40	0.00	104.14	?UNDEF	?UNDEF	?UNDEF	19.90	0.00	093.73	094.80	20.00	0.00	?UNDEF	?UNDEF	
12	1.40	0.00	104.30	?UNDEF	?UNDEF	?UNDEF	21.00	0.00	093.94	094.81	21.80	0.00	?UNDEF	?UNDEF	
13	1.40	0.00	104.68	?UNDEF	?UNDEF	?UNDEF	20.60	0.00	094.59	095.08	21.50	0.00	?UNDEF	?UNDEF	
14	1.60	0.00	105.13	?UNDEF	?UNDEF	?UNDEF	19.30	0.00	094.77	095.15	21.50	0.00	?UNDEF	?UNDEF	
15	1.40	0.00	105.43	?UNDEF	?UNDEF	?UNDEF	19.20	0.00	094.57	095.36	21.50	0.00	?UNDEF	?UNDEF	
16	1.40	0.00	106.39	?UNDEF	?UNDEF	?UNDEF	19.20	0.00	094.71	095.33	20.00	0.00	?UNDEF	?UNDEF	
17	1.40	0.00	106.38	?UNDEF	?UNDEF	?UNDEF	19.40	0.00	095.28	095.24	20.40	0.00	?UNDEF	?UNDEF	
18	1.40	0.00	105.39	?UNDEF	?UNDEF	?UNDEF	17.30	0.00	095.48	095.85	23.00	0.00	?UNDEF	?UNDEF	
19	1.50	0.00	106.38	?UNDEF	?UNDEF	?UNDEF	17.30	0.00	095.88	095.39	20.00	0.00	?UNDEF	?UNDEF	
20	1.40	0.00	104.33	?UNDEF	?UNDEF	?UNDEF	17.30	0.00	095.34	095.19	19.90	0.00	?UNDEF	?UNDEF	
21	1.40	0.00	104.10	?UNDEF	?UNDEF	?UNDEF	17.30	0.00	094.58	094.84	21.40	0.00	?UNDEF	?UNDEF	
22	1.40	0.00	103.78	?UNDEF	?UNDEF	?UNDEF	17.40	0.00	093.21	094.68	20.00	0.00	?UNDEF	?UNDEF	
23	1.50	0.00	103.57	?UNDEF	?UNDEF	?UNDEF	14.40	0.00	092.43	094.46	14.10	0.00	?UNDEF	?UNDEF	
24	1.40	0.00	103.27	?UNDEF	?UNDEF	?UNDEF	15.70	0.00	092.33	094.33	15.40	0.00	?UNDEF	?UNDEF	
LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT	
1	13.60	0.00	?UNDEF	000.00	9.40	0.00	095.00	097.07	55.50	0.00	098.19	097.88	097.90	?UNDEF	
2	13.60	0.00	?UNDEF	000.00	9.20	0.00	094.83	097.04	59.50	0.00	098.16	098.22	097.98	?UNDEF	
3	13.80	0.00	?UNDEF	000.00	9.40	0.00	094.86	097.05	76.40	0.00	098.24	098.28	098.02	?UNDEF	
4	13.60	0.00	?UNDEF	000.00	9.30	0.00	095.06	097.14	78.70	0.00	098.15	098.22	098.24	?UNDEF	
5	15.10	0.00	?UNDEF	000.00	12.50	0.00	095.11	097.34	94.70	0.00	098.25	098.31	098.32	?UNDEF	
6	17.30	0.00	?UNDEF	000.00	12.40	0.00	094.91	097.34	92.70	0.00	098.26	098.31	098.21	098.82	
7	17.60	0.00	?UNDEF	000.00	14.60	0.00	095.00	097.67	93.40	0.00	098.12	098.43	098.07	098.75	
8	19.60	0.00	?UNDEF	000.00	20.70	0.00	095.16	098.22	90.40	0.00	098.17	098.67	098.12	098.79	
9	20.80	0.00	?UNDEF	000.00	20.70	0.00	095.19	098.19	100.10	0.00	098.18	098.76	098.28	098.78	
10	21.20	0.00	?UNDEF	000.00	20.90	0.00	095.52	099.25	94.90	0.00	098.13	098.46	098.21	098.80	
11	20.80	0.00	?UNDEF	000.00	22.60	0.00	095.77	098.73	93.50	0.00	098.85	098.68	098.55	099.15	
12	22.40	0.00	?UNDEF	000.00	20.90	0.00	096.01	098.68	93.20	0.00	099.88	098.90	098.88	099.49	
13	20.90	0.00	?UNDEF	000.00	20.90	0.00	095.83	101.28	91.30	0.00	100.37	099.12	099.31	099.84	
14	20.90	0.00	?UNDEF	000.00	21.30	0.00	095.63	101.78	91.40	0.00	100.63	099.03	099.25	100.21	
15	20.70	0.00	?UNDEF	000.00	22.40	0.00	095.66	100.23	91.10	0.00	100.91	099.07	099.26	100.36	
16	22.30	0.00	?UNDEF	000.00	20.80	0.00	095.64	101.58	84.70	0.00	100.81	099.16	099.17	100.72	
17	21.20	0.00	?UNDEF	000.00	19.80	0.00	095.58	100.90	84.40	0.00	100.99	098.88	099.18	100.97	
18	20.80	0.00	?UNDEF	000.00	20.70	0.00	095.70	101.12	85.40	0.00	099.95	099.07	099.25	101.08	
19	18.60	0.00	?UNDEF	000.00	19.80	0.00	095.65	101.28	85.60	0.00	099.68	098.78	098.87	100.96	
20	21.10	0.00	?UNDEF	000.00	19.70	0.00	095.26	099.34	85.50	0.00	099.07	098.41	098.46	100.76	
21	22.40	0.00	?UNDEF	000.00	18.20	0.00	095.08	098.45	85.10	0.00	098.74	098.27	098.05	100.41	
22	20.50	0.00	?UNDEF	000.00	18.10	0.00	094.95	097.52	84.60	0.00	098.63	098.12	097.75	100.00	
23	15.40	0.00	?UNDEF	000.00	13.20	0.00	094.80	097.39	75.50	0.00	098.46	097.99	097.60	099.70	
24	15.20	0.00	?UNDEF	000.00	14.20	0.00	094.69	097.26	73.00	0.00	098.21	097.76	097.52	099.70	

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	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.40	0.00	102.74	?UNDEF	?UNDEF	?UNDEF	15.90	0.00	090.84	093.47	18.00	0.00	?UNDEF	?UNDEF
2	1.40	0.00	102.78	?UNDEF	?UNDEF	?UNDEF	15.60	0.00	091.52	093.59	17.80	0.00	?UNDEF	?UNDEF
3	1.40	0.00	102.81	?UNDEF	?UNDEF	?UNDEF	18.70	0.00	091.49	093.35	19.30	0.00	?UNDEF	?UNDEF
4	1.40	0.00	102.90	?UNDEF	?UNDEF	?UNDEF	17.00	0.00	091.64	093.88	17.90	0.00	?UNDEF	?UNDEF
5	1.50	0.00	102.91	?UNDEF	?UNDEF	?UNDEF	17.00	0.00	091.64	093.75	18.40	0.00	?UNDEF	?UNDEF
6	1.40	0.00	103.03	?UNDEF	?UNDEF	?UNDEF	17.30	0.00	092.17	093.64	19.60	0.00	?UNDEF	?UNDEF
7	1.40	0.00	102.90	?UNDEF	?UNDEF	?UNDEF	17.00	0.00	092.32	093.36	19.10	0.00	?UNDEF	?UNDEF
8	1.40	0.00	102.74	?UNDEF	?UNDEF	?UNDEF	17.20	0.00	092.16	093.35	17.80	0.00	?UNDEF	?UNDEF
9	1.40	0.00	102.83	?UNDEF	?UNDEF	?UNDEF	17.20	0.00	092.15	093.21	18.00	0.00	?UNDEF	?UNDEF
10	1.50	0.00	102.95	?UNDEF	?UNDEF	?UNDEF	17.10	0.00	092.30	093.38	18.00	0.00	?UNDEF	?UNDEF
11	1.40	0.00	103.21	?UNDEF	?UNDEF	?UNDEF	17.40	0.00	092.46	093.36	18.20	0.00	?UNDEF	?UNDEF
12	1.40	0.00	103.83	?UNDEF	?UNDEF	?UNDEF	17.10	0.00	092.66	093.75	17.90	0.00	?UNDEF	?UNDEF
13	1.40	0.00	104.22	?UNDEF	?UNDEF	?UNDEF	17.10	0.00	092.76	093.51	17.90	0.00	?UNDEF	?UNDEF
14	1.40	0.00	104.86	?UNDEF	?UNDEF	?UNDEF	17.10	0.00	093.23	093.75	17.80	0.00	?UNDEF	?UNDEF
15	1.50	0.00	105.22	?UNDEF	?UNDEF	?UNDEF	14.60	0.00	093.47	093.82	14.60	0.00	?UNDEF	?UNDEF
16	1.40	0.00	105.20	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	093.02	094.09	14.80	0.00	?UNDEF	?UNDEF
17	1.40	0.00	105.07	?UNDEF	?UNDEF	?UNDEF	13.80	0.00	092.51	094.11	14.50	0.00	?UNDEF	?UNDEF
18	1.40	0.00	104.50	?UNDEF	?UNDEF	?UNDEF	13.80	0.00	092.59	094.18	14.60	0.00	?UNDEF	?UNDEF
19	1.50	0.00	105.07	?UNDEF	?UNDEF	?UNDEF	16.90	0.00	093.30	094.23	20.50	0.00	?UNDEF	?UNDEF
20	1.40	0.00	103.61	?UNDEF	?UNDEF	?UNDEF	19.10	0.00	093.75	094.67	20.70	0.00	?UNDEF	?UNDEF
21	1.40	0.00	103.44	?UNDEF	?UNDEF	?UNDEF	17.70	0.00	093.75	094.95	22.40	0.00	?UNDEF	?UNDEF
22	1.40	0.00	103.36	?UNDEF	?UNDEF	?UNDEF	17.40	0.00	093.65	094.31	18.10	0.00	?UNDEF	?UNDEF
23	1.40	0.00	103.43	?UNDEF	?UNDEF	?UNDEF	17.30	0.00	093.41	094.17	14.70	0.00	?UNDEF	?UNDEF
24	1.50	0.00	103.18	?UNDEF	?UNDEF	?UNDEF	14.10	0.00	093.17	094.19	14.70	0.00	?UNDEF	?UNDEF

	LOWER MONUMENTAL					ICE HARBOR					MCNARY					PASCO
HOUR	TOTAL DISCH	SPILL	GAS FB	%SAT. TAILW.		TOTAL DISCH	SPILL	GAS FB	%SAT. TAILW.		TOTAL DISCH	SPILL	GAS FB	%SAT. TAILW.		GAS % SAT
	KCFS	KCFS				KCFS	KCFS				KCFS	KCFS	OR FB	WA FB		
1	17.20	0.00	?UNDEF	000.00	:	19.70	0.00	095.07	096.95	:	67.40	0.00	097.83	097.85	:	099.41
2	17.40	0.00	?UNDEF	000.00	:	19.80	0.00	094.85	096.94	:	69.50	0.00	097.92	098.26	:	099.24
3	20.50	0.00	?UNDEF	000.00	:	21.90	0.00	095.03	096.98	:	76.20	0.00	097.88	098.22	:	099.26
4	18.90	0.00	?UNDEF	000.00	:	21.50	0.00	094.85	096.81	:	79.20	0.00	097.66	098.23	:	099.08
5	19.10	0.00	?UNDEF	000.00	:	21.30	0.00	094.73	096.80	:	83.40	0.00	097.67	097.98	:	098.84
6	19.90	0.00	?UNDEF	000.00	:	23.00	0.00	094.58	096.65	:	83.60	0.00	097.53	097.98	:	098.41
7	18.70	0.00	?UNDEF	000.00	:	18.30	0.00	094.56	096.63	:	96.30	0.00	097.46	098.05	:	098.09
8	18.40	0.00	?UNDEF	000.00	:	18.10	0.00	094.40	096.77	:	103.70	0.00	097.19	098.01	:	097.84
9	18.40	0.00	?UNDEF	000.00	:	22.60	0.00	094.65	096.89	:	106.50	0.00	097.07	098.14	:	097.83
10	20.20	0.00	?UNDEF	000.00	:	20.60	0.00	094.45	097.49	:	99.30	0.00	097.07	098.29	:	098.11
11	20.50	0.00	?UNDEF	000.00	:	20.80	0.00	094.45	098.51	:	98.40	0.00	097.04	098.41	:	098.24
12	20.40	0.00	?UNDEF	000.00	:	20.80	0.00	094.65	099.54	:	96.40	0.00	098.30	098.64	:	098.60
13	20.40	0.00	?UNDEF	000.00	:	22.70	0.00	094.76	098.56	:	98.50	0.00	098.93	099.14	:	099.06
14	20.70	0.00	?UNDEF	000.00	:	22.00	0.00	095.03	099.00	:	97.30	0.00	099.12	099.18	:	?UNDEF
15	17.90	0.00	?UNDEF	000.00	:	19.20	0.00	094.96	098.66	:	87.70	0.00	099.09	098.98	:	?UNDEF
16	19.30	0.00	?UNDEF	000.00	:	24.20	0.00	095.16	098.75	:	85.90	0.00	098.94	099.22	:	?UNDEF
17	19.20	0.00	?UNDEF	000.00	:	19.80	0.00	095.26	098.29	:	86.70	0.00	099.06	098.91	:	?UNDEF
18	17.60	0.00	?UNDEF	000.00	:	19.60	0.00	095.48	100.08	:	88.80	0.00	098.64	099.27	:	?UNDEF
19	22.40	0.00	?UNDEF	000.00	:	18.20	0.00	095.23	100.37	:	94.40	0.00	098.49	098.78	:	?UNDEF
20	21.20	0.00	?UNDEF	000.00	:	18.20	0.00	095.25	099.00	:	94.90	0.00	098.32	099.08	:	?UNDEF
21	21.50	0.00	?UNDEF	000.00	:	18.10	0.00	095.14	098.27	:	91.30	0.00	098.35	098.62	:	?UNDEF
22	19.80	0.00	?UNDEF	000.00	:	18.50	0.00	095.11	097.97	:	87.80	0.00	098.20	098.24	:	?UNDEF
23	14.40	0.00	?UNDEF	000.00	:	13.80	0.00	095.14	097.32	:	68.70	0.00	098.20	098.16	:	?UNDEF
24	13.80	0.00	?UNDEF	000.00	:	12.70	0.00	095.13	097.16	:	58.80	0.00	098.23	098.01	:	?UNDEF

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DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.
1	1.40	0.00	103.94	?UNDEF	?UNDEF	?UNDEF	15.60	0.00	090.25	092.92	14.80	0.00	?UNDEF	?UNDEF
2	1.40	0.00	103.79	?UNDEF	?UNDEF	?UNDEF	15.10	0.00	090.63	092.80	13.60	0.00	?UNDEF	?UNDEF
3	1.40	0.00	103.82	?UNDEF	?UNDEF	?UNDEF	14.90	0.00	090.19	093.31	13.50	0.00	?UNDEF	?UNDEF
4	1.50	0.00	103.78	?UNDEF	?UNDEF	?UNDEF	15.20	0.00	089.99	093.47	14.90	0.00	?UNDEF	?UNDEF
5	1.40	0.00	103.62	?UNDEF	?UNDEF	?UNDEF	16.80	0.00	090.05	093.39	13.40	0.00	?UNDEF	?UNDEF
6	1.40	0.00	103.73	?UNDEF	?UNDEF	?UNDEF	17.40	0.00	090.04	093.40	13.80	0.00	?UNDEF	?UNDEF
7	1.40	0.00	103.79	?UNDEF	?UNDEF	?UNDEF	15.30	0.00	090.50	093.70	13.40	0.00	?UNDEF	?UNDEF
8	1.50	0.00	103.79	?UNDEF	?UNDEF	?UNDEF	15.30	0.00	090.90	093.52	13.30	0.00	?UNDEF	?UNDEF
9	1.40	0.00	103.85	?UNDEF	?UNDEF	?UNDEF	15.30	0.00	090.90	093.44	14.70	0.00	?UNDEF	?UNDEF
10	1.40	0.00	104.19	?UNDEF	?UNDEF	?UNDEF	15.50	0.00	091.23	092.85	15.10	0.00	?UNDEF	?UNDEF
11	1.40	0.00	104.25	?UNDEF	?UNDEF	?UNDEF	17.00	0.00	090.95	093.06	16.60	0.00	?UNDEF	?UNDEF
12	1.40	0.00	104.46	?UNDEF	?UNDEF	?UNDEF	15.30	0.00	090.75	094.33	17.00	0.00	?UNDEF	?UNDEF
13	1.50	0.00	104.78	?UNDEF	?UNDEF	?UNDEF	15.30	0.00	090.40	094.29	17.00	0.00	?UNDEF	?UNDEF
14	1.40	0.00	105.02	?UNDEF	?UNDEF	?UNDEF	15.30	0.00	090.29	094.30	17.00	0.00	?UNDEF	?UNDEF
15	1.40	0.00	104.76	?UNDEF	?UNDEF	?UNDEF	15.50	0.00	090.81	094.14	18.80	0.00	?UNDEF	?UNDEF
16	1.40	0.00	104.59	?UNDEF	?UNDEF	?UNDEF	16.90	0.00	090.76	094.07	17.00	0.00	?UNDEF	?UNDEF
17	1.40	0.00	104.42	?UNDEF	?UNDEF	?UNDEF	15.20	0.00	090.40	094.16	17.00	0.00	?UNDEF	?UNDEF
18	1.50	0.00	104.04	?UNDEF	?UNDEF	?UNDEF	15.20	0.00	090.52	094.06	17.10	0.00	?UNDEF	?UNDEF
19	1.40	0.00	104.42	?UNDEF	?UNDEF	?UNDEF	15.20	0.00	090.45	093.87	17.00	0.00	?UNDEF	?UNDEF
20	1.40	0.00	103.30	?UNDEF	?UNDEF	?UNDEF	17.60	0.00	090.46	093.67	17.40	0.00	?UNDEF	?UNDEF
21	1.40	0.00	102.92	?UNDEF	?UNDEF	?UNDEF	15.60	0.00	090.17	093.50	18.50	0.00	?UNDEF	?UNDEF
22	1.40	0.00	102.87	?UNDEF	?UNDEF	?UNDEF	15.60	0.00	089.71	094.09	17.10	0.00	?UNDEF	?UNDEF
23	1.50	0.00	102.73	?UNDEF	?UNDEF	?UNDEF	15.60	0.00	089.82	093.80	17.50	0.00	?UNDEF	?UNDEF
24	1.40	0.00	102.65	?UNDEF	?UNDEF	?UNDEF	15.60	0.00	090.64	093.65	19.30	0.00	?UNDEF	?UNDEF
LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT
1	13.90	0.00	?UNDEF	000.00	11.30	0.00	094.86	097.71	60.50	0.00	098.29	097.82	097.86	099.71
2	15.30	0.00	?UNDEF	000.00	12.30	0.00	095.00	097.73	60.60	0.00	098.25	097.80	097.70	099.44
3	13.80	0.00	?UNDEF	000.00	12.80	0.00	095.07	098.63	60.60	0.00	098.41	097.93	097.80	099.28
4	13.70	0.00	?UNDEF	000.00	13.70	0.00	095.26	098.14	60.90	0.00	098.45	097.86	097.84	099.20
5	13.70	0.00	?UNDEF	000.00	13.20	0.00	095.49	098.07	69.40	0.00	098.46	097.85	098.00	098.99
6	14.30	0.00	?UNDEF	000.00	11.70	0.00	095.50	098.33	70.80	0.00	098.34	097.97	098.03	099.03
7	14.10	0.00	?UNDEF	000.00	11.30	0.00	095.33	098.47	62.20	0.00	098.34	097.91	098.04	098.83
8	13.80	0.00	?UNDEF	000.00	10.20	0.00	095.32	098.30	61.80	0.00	098.24	097.79	097.94	098.67
9	13.70	0.00	?UNDEF	000.00	12.80	0.00	095.21	098.58	61.70	0.00	098.16	097.94	098.02	098.54
10	13.80	0.00	?UNDEF	000.00	12.60	0.00	095.01	099.44	61.80	0.00	098.11	097.61	098.06	098.62
11	13.80	0.00	?UNDEF	000.00	14.20	0.00	094.92	098.67	61.80	0.00	097.86	097.76	098.18	098.78
12	13.70	0.00	?UNDEF	000.00	14.40	0.00	094.99	098.43	61.50	0.00	098.10	097.99	098.32	099.10
13	15.50	0.00	?UNDEF	000.00	13.00	0.00	094.93	098.50	61.20	0.00	099.01	097.97	098.30	099.31
14	13.70	0.00	?UNDEF	000.00	14.50	0.00	094.88	098.79	61.20	0.00	098.60	097.89	098.43	099.44
15	13.50	0.00	?UNDEF	000.00	13.30	0.00	095.05	099.40	61.30	0.00	098.72	097.87	098.55	099.60
16	15.20	0.00	?UNDEF	000.00	13.10	0.00	094.97	099.19	61.40	0.00	098.77	097.90	098.23	099.37
17	13.80	0.00	?UNDEF	000.00	13.30	0.00	094.94	099.09	61.40	0.00	099.00	097.98	097.93	099.37
18	16.00	0.00	?UNDEF	000.00	18.00	0.00	094.90	098.56	61.30	0.00	099.13	098.24	097.89	099.46
19	16.00	0.00	?UNDEF	000.00	18.00	0.00	095.00	098.77	61.80	0.00	098.30	098.08	097.63	099.43
20	16.70	0.00	?UNDEF	000.00	19.50	0.00	095.11	098.08	68.50	0.00	098.25	098.32	097.59	099.37
21	16.90	0.00	?UNDEF	000.00	18.40	0.00	095.18	097.49	69.10	0.00	098.18	098.24	097.45	099.41
22	16.70	0.00	?UNDEF	000.00	18.10	0.00	095.28	097.23	67.30	0.00	097.88	097.92	097.48	099.39
23	18.90	0.00	?UNDEF	000.00	19.90	0.00	095.26	097.04	66.90	0.00	097.71	097.88	097.39	099.33
24	17.80	0.00	?UNDEF	000.00	19.90	0.00	095.06	097.23	68.10	0.00	097.83	097.64	097.25	099.33

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DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.
1	1.40	0.00	103.82	?UNDEF	?UNDEF	?UNDEF	15.00	0.00	091.47	092.93	17.70	0.00	?UNDEF	?UNDEF
2	1.40	0.00	103.72	?UNDEF	?UNDEF	?UNDEF	15.00	0.00	091.24	092.44	15.70	0.00	?UNDEF	?UNDEF
3	1.40	0.00	103.61	?UNDEF	?UNDEF	?UNDEF	15.00	0.00	091.07	091.99	14.30	0.00	?UNDEF	?UNDEF
4	1.50	0.00	103.54	?UNDEF	?UNDEF	?UNDEF	15.30	0.00	091.04	092.24	14.50	0.00	?UNDEF	?UNDEF
5	1.40	0.00	103.63	?UNDEF	?UNDEF	?UNDEF	15.00	0.00	090.82	092.43	14.10	0.00	?UNDEF	?UNDEF
6	1.40	0.00	103.75	?UNDEF	?UNDEF	?UNDEF	15.00	0.00	090.54	092.67	14.20	0.00	?UNDEF	?UNDEF
7	1.40	0.00	103.66	?UNDEF	?UNDEF	?UNDEF	15.00	0.00	090.63	092.61	15.80	0.00	?UNDEF	?UNDEF
8	1.40	0.00	103.75	?UNDEF	?UNDEF	?UNDEF	15.00	0.00	090.73	092.57	14.30	0.00	?UNDEF	?UNDEF
9	1.50	0.00	103.84	?UNDEF	?UNDEF	?UNDEF	15.30	0.00	090.51	090.00	14.20	0.00	?UNDEF	?UNDEF
10	1.40	0.00	104.08	?UNDEF	?UNDEF	?UNDEF	15.00	0.00	090.63	091.96	14.00	0.00	?UNDEF	?UNDEF
11	1.40	0.00	104.58	?UNDEF	?UNDEF	?UNDEF	15.00	0.00	090.74	091.90	13.90	0.00	?UNDEF	?UNDEF
12	1.40	0.00	105.10	?UNDEF	?UNDEF	?UNDEF	15.00	0.00	090.58	091.89	14.00	0.00	?UNDEF	?UNDEF
13	1.50	0.00	105.29	?UNDEF	?UNDEF	?UNDEF	15.00	0.00	090.68	091.96	14.00	0.00	?UNDEF	?UNDEF
14	1.40	0.00	105.64	?UNDEF	?UNDEF	?UNDEF	15.00	0.00	090.70	092.06	14.20	0.00	?UNDEF	?UNDEF
15	1.40	0.00	105.85	?UNDEF	?UNDEF	?UNDEF	15.30	0.00	090.81	092.10	15.40	0.00	?UNDEF	?UNDEF
16	1.40	0.00	105.62	?UNDEF	?UNDEF	?UNDEF	15.00	0.00	090.79	092.25	13.90	0.00	?UNDEF	?UNDEF
17	1.40	0.00	105.14	?UNDEF	?UNDEF	?UNDEF	15.30	0.00	091.08	092.39	13.90	0.00	?UNDEF	?UNDEF
18	1.50	0.00	104.56	?UNDEF	?UNDEF	?UNDEF	15.30	0.00	090.75	092.26	13.70	0.00	?UNDEF	?UNDEF
19	1.40	0.00	105.14	?UNDEF	?UNDEF	?UNDEF	15.30	0.00	090.62	092.31	13.90	0.00	?UNDEF	?UNDEF
20	1.40	0.00	103.88	?UNDEF	?UNDEF	?UNDEF	16.50	0.00	090.46	092.32	13.90	0.00	?UNDEF	?UNDEF
21	1.40	0.00	103.81	?UNDEF	?UNDEF	?UNDEF	17.00	0.00	090.20	093.31	13.80	0.00	?UNDEF	?UNDEF
22	1.40	0.00	103.76	?UNDEF	?UNDEF	?UNDEF	15.30	0.00	090.54	093.44	13.90	0.00	?UNDEF	?UNDEF
23	1.50	0.00	103.83	?UNDEF	?UNDEF	?UNDEF	15.40	0.00	090.24	093.04	15.30	0.00	?UNDEF	?UNDEF
24	1.40	0.00	104.02	?UNDEF	?UNDEF	?UNDEF	15.40	0.00	090.15	092.96	16.80	0.00	?UNDEF	?UNDEF

	LOWER MONUMENTAL					ICE HARBOR					MCNARY					PASCO
HOUR	TOTAL DISCH	SPILL	GAS	%SAT.	TOTAL DISCH	SPILL	GAS	%SAT.	TOTAL DISCH	SPILL	GAS	%SAT.	TOTAL DISCH	SPILL	GAS	%SAT.
	KCFS	KCFS	FB	TAILW.	KCFS	KCFS	FB	TAILW.	KCFS	KCFS	OR FB	WA FB	TAILW.	KCFS	KCFS	% SAT
1	21.30	0.00	?UNDEF	000.00	20.90	0.00	095.35	097.58	71.00	0.00	097.76	097.80	098.12			098.48
2	18.90	0.00	?UNDEF	000.00	20.50	0.00	095.26	097.97	64.60	0.00	097.66	097.68	097.76			098.21
3	15.90	0.00	?UNDEF	000.00	13.30	0.00	095.26	097.28	76.00	0.00	097.61	097.53	097.38			098.17
4	15.70	0.00	?UNDEF	000.00	14.40	0.00	095.18	097.12	82.00	0.00	097.40	097.49	097.25			098.14
5	15.90	0.00	?UNDEF	000.00	13.00	0.00	095.29	097.03	95.30	0.00	097.39	097.55	097.21			098.08
6	15.60	0.00	?UNDEF	000.00	12.70	0.00	095.07	097.01	88.40	0.00	097.34	097.25	097.27			098.06
7	15.70	0.00	?UNDEF	000.00	12.80	0.00	094.92	096.96	90.20	0.00	097.26	097.21	097.23			097.85
8	15.70	0.00	?UNDEF	000.00	15.80	0.00	094.87	097.35	94.00	0.00	097.25	096.91	097.19			097.82
9	13.80	0.00	?UNDEF	000.00	12.90	0.00	094.82	098.27	90.80	0.00	097.22	097.12	097.26			097.81
10	13.70	0.00	?UNDEF	000.00	14.70	0.00	094.78	098.05	87.70	0.00	097.16	097.36	097.51			097.97
11	15.20	0.00	?UNDEF	000.00	13.00	0.00	095.11	097.88	89.60	0.00	097.21	097.36	097.89			098.31
12	14.20	0.00	?UNDEF	000.00	14.50	0.00	094.98	098.82	74.30	0.00	097.31	097.58	098.22			098.60
13	15.50	0.00	?UNDEF	000.00	13.00	0.00	095.03	099.40	68.00	0.00	097.45	097.60	098.29			098.76
14	13.90	0.00	?UNDEF	000.00	14.40	0.00	095.12	099.65	59.30	0.00	097.78	097.57	098.50			099.13
15	13.90	0.00	?UNDEF	000.00	13.10	0.00	095.19	099.93	59.90	0.00	098.11	097.76	098.95			099.46
16	13.90	0.00	?UNDEF	000.00	12.90	0.00	095.16	100.53	59.70	0.00	098.32	097.79	098.86			099.71
17	13.90	0.00	?UNDEF	000.00	12.90	0.00	095.00	101.49	60.50	0.00	098.32	097.85	099.02			099.88
18	14.10	0.00	?UNDEF	000.00	14.50	0.00	095.05	102.36	60.70	0.00	098.37	097.75	099.11			099.93
19	13.80	0.00	?UNDEF	000.00	13.00	0.00	095.14	101.42	60.80	0.00	098.27	097.63	098.58			099.80
20	13.80	0.00	?UNDEF	000.00	13.10	0.00	095.12	099.15	60.50	0.00	098.43	097.67	098.09			099.79
21	13.80	0.00	?UNDEF	000.00	13.00	0.00	095.12	098.25	60.50	0.00	098.23	097.63	097.92			099.76
22	13.80	0.00	?UNDEF	000.00	13.00	0.00	094.96	098.13	60.40	0.00	098.27	097.54	098.06			099.67
23	13.80	0.00	?UNDEF	000.00	13.00	0.00	095.04	098.41	60.60	0.00	098.32	097.67	097.95			099.72
24	14.00	0.00	?UNDEF	000.00	13.30	0.00	094.95	097.81	60.30	0.00	098.17	097.69	097.87			099.72

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	DWORSHAK			STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.40	0.00	102.91	?UNDEF	?UNDEF	?UNDEF	12.00	0.00	090.96	093.10	12.50	0.00	?UNDEF	?UNDEF
2	1.40	0.00	102.79	?UNDEF	?UNDEF	?UNDEF	11.80	0.00	090.87	093.15	12.90	0.00	?UNDEF	?UNDEF
3	1.40	0.00	102.65	?UNDEF	?UNDEF	?UNDEF	11.70	0.00	090.42	092.95	12.10	0.00	?UNDEF	?UNDEF
4	1.40	0.00	102.73	?UNDEF	?UNDEF	?UNDEF	11.90	0.00	090.04	092.92	11.90	0.00	?UNDEF	?UNDEF
5	1.50	0.00	102.85	?UNDEF	?UNDEF	?UNDEF	11.70	0.00	089.93	092.95	11.90	0.00	?UNDEF	?UNDEF
6	1.50	0.00	102.77	?UNDEF	?UNDEF	?UNDEF	11.90	0.00	089.49	092.82	13.10	0.00	?UNDEF	?UNDEF
7	1.50	0.00	102.77	?UNDEF	?UNDEF	?UNDEF	11.70	0.00	089.47	092.81	13.90	0.00	?UNDEF	?UNDEF
8	1.50	0.00	102.40	?UNDEF	?UNDEF	?UNDEF	13.50	0.00	089.60	092.94	12.60	0.00	?UNDEF	?UNDEF
9	1.50	0.00	102.14	?UNDEF	?UNDEF	?UNDEF	13.60	0.00	091.18	091.96	12.50	0.00	?UNDEF	?UNDEF
10	1.50	0.00	102.01	?UNDEF	?UNDEF	?UNDEF	15.00	0.00	092.15	092.18	13.30	0.00	?UNDEF	?UNDEF
11	1.40	0.00	102.50	?UNDEF	?UNDEF	?UNDEF	14.80	0.00	092.15	091.75	13.50	0.00	?UNDEF	?UNDEF
12	1.40	0.00	103.15	?UNDEF	?UNDEF	?UNDEF	15.30	0.00	092.13	091.60	17.00	0.00	?UNDEF	?UNDEF
13	1.40	0.00	103.92	?UNDEF	?UNDEF	?UNDEF	15.10	0.00	092.46	092.30	15.80	0.00	?UNDEF	?UNDEF
14	1.50	0.00	104.47	?UNDEF	?UNDEF	?UNDEF	15.00	0.00	092.52	092.20	16.90	0.00	?UNDEF	?UNDEF
15	1.40	0.00	104.41	?UNDEF	?UNDEF	?UNDEF	15.10	0.00	092.50	092.40	15.60	0.00	?UNDEF	?UNDEF
16	1.40	0.00	104.24	?UNDEF	?UNDEF	?UNDEF	15.10	0.00	092.27	092.41	17.10	0.00	?UNDEF	?UNDEF
17	1.40	0.00	103.98	?UNDEF	?UNDEF	?UNDEF	15.30	0.00	091.96	092.19	15.70	0.00	?UNDEF	?UNDEF
18	1.40	0.00	103.82	?UNDEF	?UNDEF	?UNDEF	15.10	0.00	091.63	092.44	16.00	0.00	?UNDEF	?UNDEF
19	1.50	0.00	103.98	?UNDEF	?UNDEF	?UNDEF	16.90	0.00	091.65	092.98	15.80	0.00	?UNDEF	?UNDEF
20	1.40	0.00	103.68	?UNDEF	?UNDEF	?UNDEF	16.80	0.00	091.79	093.65	15.70	0.00	?UNDEF	?UNDEF
21	1.40	0.00	103.63	?UNDEF	?UNDEF	?UNDEF	16.80	0.00	091.46	094.09	17.90	0.00	?UNDEF	?UNDEF
22	1.40	0.00	103.93	?UNDEF	?UNDEF	?UNDEF	16.80	0.00	091.68	094.12	18.00	0.00	?UNDEF	?UNDEF
23	1.50	0.00	104.07	?UNDEF	?UNDEF	?UNDEF	15.40	0.00	091.35	093.88	18.10	0.00	?UNDEF	?UNDEF
24	1.40	0.00	103.88	?UNDEF	?UNDEF	?UNDEF	15.10	0.00	091.33	093.41	19.30	0.00	?UNDEF	?UNDEF

HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO	
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	14.20	0.00	?UNDEF	000.00	14.10	0.00	094.53	097.00	67.80	0.00	096.63	096.82	096.68	097.58
2	15.40	0.00	?UNDEF	000.00	12.70	0.00	094.43	097.68	61.10	0.00	096.64	097.09	096.48	097.38
3	14.10	0.00	?UNDEF	000.00	12.90	0.00	094.53	097.38	60.70	0.00	096.65	096.84	096.35	097.36
4	14.10	0.00	?UNDEF	000.00	12.70	0.00	094.39	097.14	60.90	0.00	096.51	096.83	096.48	097.24
5	14.60	0.00	?UNDEF	000.00	12.70	0.00	094.44	097.14	68.50	0.00	096.56	096.71	096.51	097.29
6	14.50	0.00	?UNDEF	000.00	12.80	0.00	094.29	097.73	87.30	0.00	096.87	096.79	096.53	097.33
7	13.70	0.00	?UNDEF	000.00	12.50	0.00	094.36	097.48	85.80	0.00	096.63	096.93	096.43	097.33
8	13.30	0.00	?UNDEF	000.00	13.70	0.00	094.43	097.32	84.30	0.00	096.57	096.97	096.52	097.26
9	13.60	0.00	?UNDEF	000.00	15.80	0.00	094.60	097.29	82.80	0.00	096.71	096.89	096.65	097.47
10	14.50	0.00	?UNDEF	000.00	13.00	0.00	094.71	097.28	81.80	0.00	096.76	096.81	096.85	097.63
11	14.70	0.00	?UNDEF	000.00	13.20	0.00	094.88	097.75	77.90	0.00	096.96	097.03	097.40	097.83
12	16.10	0.00	?UNDEF	000.00	16.90	0.00	094.99	103.46	78.90	0.00	097.06	097.15	097.66	098.23
13	15.40	0.00	?UNDEF	000.00	14.20	0.00	095.54	101.25	78.20	0.00	097.36	097.55	097.80	098.65
14	17.10	0.00	?UNDEF	000.00	14.80	0.00	095.68	099.27	80.00	0.00	097.53	097.85	098.20	099.10
15	15.90	0.00	?UNDEF	000.00	13.00	0.00	095.85	099.93	78.80	0.00	097.79	097.94	098.70	099.26
16	15.50	0.00	?UNDEF	000.00	14.50	0.00	096.05	099.52	78.20	0.00	098.00	098.03	098.77	099.52
17	15.60	0.00	?UNDEF	000.00	13.00	0.00	096.16	103.66	78.70	0.00	098.14	098.25	098.46	099.87
18	15.50	0.00	?UNDEF	000.00	14.20	0.00	096.08	102.44	79.30	0.00	098.16	098.13	098.25	099.97
19	15.60	0.00	?UNDEF	000.00	13.00	0.00	095.84	105.78	82.10	0.00	098.29	098.48	098.14	099.63
20	15.60	0.00	?UNDEF	000.00	13.00	0.00	095.84	102.77	88.10	0.00	098.35	098.40	098.13	099.48
21	21.00	0.00	?UNDEF	000.00	18.30	0.00	095.63	100.19	86.90	0.00	098.30	098.37	097.94	099.08
22	21.90	0.00	?UNDEF	000.00	22.20	0.00	095.60	098.82	77.00	0.00	098.18	098.08	097.81	098.94
23	21.40	0.00	?UNDEF	000.00	20.80	0.00	095.35	098.43	72.50	0.00	097.91	097.71	097.77	098.66
24	21.50	0.00	?UNDEF	000.00	21.20	0.00	095.23	097.85	74.20	0.00	097.92	097.76	098.04	098.66

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DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	
1	1.40	0.00	104.46	?UNDEF	?UNDEF	?UNDEF	13.10	0.00	093.11	095.51	13.80	0.00	?UNDEF	?UNDEF	
2	1.40	0.00	104.48	?UNDEF	?UNDEF	?UNDEF	13.10	0.00	092.85	095.39	13.70	0.00	?UNDEF	?UNDEF	
3	1.40	0.00	104.32	?UNDEF	?UNDEF	?UNDEF	13.10	0.00	092.93	095.32	13.60	0.00	?UNDEF	?UNDEF	
4	1.40	0.00	104.25	?UNDEF	?UNDEF	?UNDEF	13.10	0.00	092.83	095.14	15.00	0.00	?UNDEF	?UNDEF	
5	1.50	0.00	104.18	?UNDEF	?UNDEF	?UNDEF	13.30	0.00	092.60	095.08	13.70	0.00	?UNDEF	?UNDEF	
6	1.40	0.00	104.09	?UNDEF	?UNDEF	?UNDEF	13.10	0.00	092.84	094.72	13.70	0.00	?UNDEF	?UNDEF	
7	1.40	0.00	103.92	?UNDEF	?UNDEF	?UNDEF	13.10	0.00	092.44	094.59	13.60	0.00	?UNDEF	?UNDEF	
8	1.40	0.00	103.85	?UNDEF	?UNDEF	?UNDEF	14.30	0.00	092.23	094.20	13.50	0.00	?UNDEF	?UNDEF	
9	1.40	0.00	104.01	?UNDEF	?UNDEF	?UNDEF	14.10	0.00	092.07	093.81	15.50	0.00	?UNDEF	?UNDEF	
10	1.50	0.00	104.14	?UNDEF	?UNDEF	?UNDEF	15.10	0.00	092.07	093.69	17.00	0.00	?UNDEF	?UNDEF	
11	1.40	0.00	104.60	?UNDEF	?UNDEF	?UNDEF	15.10	0.00	091.86	093.47	13.40	0.00	?UNDEF	?UNDEF	
12	1.40	0.00	104.77	?UNDEF	?UNDEF	?UNDEF	15.30	0.00	091.69	093.14	13.90	0.00	?UNDEF	?UNDEF	
13	1.40	0.00	105.00	?UNDEF	?UNDEF	?UNDEF	15.20	0.00	091.51	092.98	13.60	0.00	?UNDEF	?UNDEF	
14	1.40	0.00	105.24	?UNDEF	?UNDEF	?UNDEF	15.00	0.00	091.23	092.44	13.60	0.00	?UNDEF	?UNDEF	
15	1.50	0.00	105.26	?UNDEF	?UNDEF	?UNDEF	15.30	0.00	090.99	092.54	13.50	0.00	?UNDEF	?UNDEF	
16	1.40	0.00	105.22	?UNDEF	?UNDEF	?UNDEF	16.70	0.00	090.93	094.11	15.10	0.00	?UNDEF	?UNDEF	
17	1.40	0.00	104.78	?UNDEF	?UNDEF	?UNDEF	15.10	0.00	090.80	093.96	14.90	0.00	?UNDEF	?UNDEF	
18	1.40	0.00	104.16	?UNDEF	?UNDEF	?UNDEF	15.10	0.00	091.18	092.95	17.90	0.00	?UNDEF	?UNDEF	
19	1.50	0.00	104.78	?UNDEF	?UNDEF	?UNDEF	16.00	0.00	091.55	092.47	17.30	0.00	?UNDEF	?UNDEF	
20	1.40	0.00	103.26	?UNDEF	?UNDEF	?UNDEF	15.70	0.00	091.61	091.85	17.00	0.00	?UNDEF	?UNDEF	
21	1.40	0.00	103.05	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	091.15	092.05	18.60	0.00	?UNDEF	?UNDEF	
22	1.40	0.00	102.95	?UNDEF	?UNDEF	?UNDEF	13.80	0.00	091.33	091.99	17.30	0.00	?UNDEF	?UNDEF	
23	1.40	0.00	102.92	?UNDEF	?UNDEF	?UNDEF	15.50	0.00	091.60	092.77	17.00	0.00	?UNDEF	?UNDEF	
24	1.50	0.00	102.92	?UNDEF	?UNDEF	?UNDEF	11.90	0.00	091.10	093.45	13.30	0.00	?UNDEF	?UNDEF	
LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT	
1	13.60	0.00	?UNDEF	000.00	11.30	0.00	095.84	098.61	96.80	0.00	098.42	098.74	098.36	098.78	
2	13.40	0.00	?UNDEF	000.00	11.40	0.00	095.75	098.37	91.30	0.00	098.16	098.58	098.33	098.57	
3	14.90	0.00	?UNDEF	000.00	11.20	0.00	095.53	098.56	90.00	0.00	098.05	098.49	098.26	098.40	
4	13.30	0.00	?UNDEF	000.00	11.30	0.00	095.26	099.07	101.10	0.00	097.94	098.52	098.09	098.09	
5	13.30	0.00	?UNDEF	000.00	12.60	0.00	095.20	098.07	89.50	0.00	097.67	098.13	098.01	097.88	
6	13.30	0.00	?UNDEF	000.00	12.60	0.00	095.18	097.79	84.40	0.00	097.57	098.18	097.88	097.61	
7	13.40	0.00	?UNDEF	000.00	12.40	0.00	095.05	097.66	83.60	0.00	097.45	097.81	097.79	097.45	
8	15.00	0.00	?UNDEF	000.00	14.10	0.00	094.95	097.69	84.10	0.00	097.46	097.66	097.52	097.21	
9	13.40	0.00	?UNDEF	000.00	12.90	0.00	095.31	098.02	77.70	0.00	097.27	097.55	097.56	097.16	
10	13.30	0.00	?UNDEF	000.00	14.40	0.00	095.33	099.32	84.70	0.00	097.32	097.65	097.59	097.34	
11	14.00	0.00	?UNDEF	000.00	14.50	0.00	095.31	098.34	80.50	0.00	097.09	097.46	097.96	097.51	
12	15.50	0.00	?UNDEF	000.00	14.20	0.00	095.23	098.34	85.00	0.00	097.16	097.37	097.89	097.71	
13	14.00	0.00	?UNDEF	000.00	12.70	0.00	095.07	099.68	80.20	0.00	097.12	097.46	098.01	097.98	
14	15.60	0.00	?UNDEF	000.00	12.70	0.00	095.04	100.09	78.00	0.00	097.40	097.58	098.18	098.19	
15	14.10	0.00	?UNDEF	000.00	12.80	0.00	095.00	098.95	65.40	0.00	097.80	097.42	098.46	098.60	
16	14.60	0.00	?UNDEF	000.00	12.70	0.00	094.83	099.14	80.10	0.00	097.78	097.52	098.31	098.68	
17	14.10	0.00	?UNDEF	000.00	13.20	0.00	094.83	098.20	94.10	0.00	097.71	097.52	098.30	098.93	
18	15.20	0.00	?UNDEF	000.00	18.50	0.00	094.75	098.64	82.00	0.00	097.68	097.31	098.12	099.14	
19	15.40	0.00	?UNDEF	000.00	19.70	0.00	094.52	101.44	82.00	0.00	097.31	096.98	097.77	099.14	
20	17.50	0.00	?UNDEF	000.00	18.10	0.00	094.56	101.77	82.60	0.00	097.24	096.90	097.20	098.96	
21	18.90	0.00	?UNDEF	000.00	18.10	0.00	094.49	101.97	80.90	0.00	097.00	096.69	097.12	098.75	
22	17.30	0.00	?UNDEF	000.00	15.60	0.00	094.41	098.75	80.70	0.00	096.95	096.75	097.15	098.54	
23	17.40	0.00	?UNDEF	000.00	12.70	0.00	094.41	098.60	79.20	0.00	096.76	096.83	096.98	098.13	
24	17.20	0.00	?UNDEF	000.00	12.50	0.00	094.36	097.38	67.10	0.00	096.73	096.77	096.81	098.13	

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HOUR	DWRSHAK			STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT TAILW.
1	1.40	0.00	103.75	?UNDEF	?UNDEF	?UNDEF	11.70	0.00	092.41	094.66	11.70	0.00	?UNDEF	?UNDEF
2	1.40	0.00	103.91	?UNDEF	?UNDEF	?UNDEF	13.60	0.00	092.27	095.30	13.20	0.00	?UNDEF	?UNDEF
3	1.40	0.00	103.91	?UNDEF	?UNDEF	?UNDEF	13.60	0.00	092.59	095.00	11.70	0.00	?UNDEF	?UNDEF
4	1.40	0.00	103.97	?UNDEF	?UNDEF	?UNDEF	11.70	0.00	092.91	095.30	11.80	0.00	?UNDEF	?UNDEF
5	1.40	0.00	103.85	?UNDEF	?UNDEF	?UNDEF	11.80	0.00	093.10	094.97	11.80	0.00	?UNDEF	?UNDEF
6	1.40	0.00	103.72	?UNDEF	?UNDEF	?UNDEF	11.70	0.00	093.12	094.83	11.70	0.00	?UNDEF	?UNDEF
7	1.40	0.00	103.70	?UNDEF	?UNDEF	?UNDEF	11.70	0.00	093.17	094.76	14.80	0.00	?UNDEF	?UNDEF
8	1.50	0.00	103.69	?UNDEF	?UNDEF	?UNDEF	12.40	0.00	093.21	094.78	12.30	0.00	?UNDEF	?UNDEF
9	1.50	0.00	103.97	?UNDEF	?UNDEF	?UNDEF	13.10	0.00	093.53	094.74	12.90	0.00	?UNDEF	?UNDEF
10	1.50	0.00	104.83	?UNDEF	?UNDEF	?UNDEF	13.00	0.00	093.78	094.42	13.20	0.00	?UNDEF	?UNDEF
11	1.70	0.00	105.67	?UNDEF	?UNDEF	?UNDEF	13.00	0.00	094.20	094.75	13.30	0.00	?UNDEF	?UNDEF
12	1.40	0.00	106.35	?UNDEF	?UNDEF	?UNDEF	13.10	0.00	094.16	094.57	13.40	0.00	?UNDEF	?UNDEF
13	1.40	0.00	105.17	?UNDEF	?UNDEF	?UNDEF	13.10	0.00	094.12	094.80	13.40	0.00	?UNDEF	?UNDEF
14	1.40	0.00	105.63	?UNDEF	?UNDEF	?UNDEF	13.30	0.00	093.96	094.76	13.50	0.00	?UNDEF	?UNDEF
15	1.50	0.00	105.65	?UNDEF	?UNDEF	?UNDEF	13.10	0.00	093.58	094.38	13.80	0.00	?UNDEF	?UNDEF
16	1.40	0.00	105.20	?UNDEF	?UNDEF	?UNDEF	13.10	0.00	093.23	094.55	13.50	0.00	?UNDEF	?UNDEF
17	1.50	0.00	104.99	?UNDEF	?UNDEF	?UNDEF	13.10	0.00	092.59	094.58	13.60	0.00	?UNDEF	?UNDEF
18	1.50	0.00	104.73	?UNDEF	?UNDEF	?UNDEF	13.30	0.00	092.38	094.83	13.60	0.00	?UNDEF	?UNDEF
19	1.40	0.00	104.99	?UNDEF	?UNDEF	?UNDEF	13.10	0.00	091.89	095.15	15.00	0.00	?UNDEF	?UNDEF
20	1.50	0.00	104.15	?UNDEF	?UNDEF	?UNDEF	14.80	0.00	092.53	095.37	13.60	0.00	?UNDEF	?UNDEF
21	1.40	0.00	104.22	?UNDEF	?UNDEF	?UNDEF	13.10	0.00	092.92	095.61	13.40	0.00	?UNDEF	?UNDEF
22	1.40	0.00	104.13	?UNDEF	?UNDEF	?UNDEF	13.10	0.00	094.33	095.69	13.60	0.00	?UNDEF	?UNDEF
23	1.40	0.00	104.39	?UNDEF	?UNDEF	?UNDEF	15.00	0.00	094.03	096.05	13.50	0.00	?UNDEF	?UNDEF
24	1.50	0.00	104.59	?UNDEF	?UNDEF	?UNDEF	13.10	0.00	093.44	095.59	15.20	0.00	?UNDEF	?UNDEF

HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO	
	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	12.20	0.00	?UNDEF	000.00	11.80	0.00	094.56	097.82	60.00	0.00	098.20	097.30	096.93	098.72
2	11.90	0.00	?UNDEF	000.00	10.50	0.00	094.58	098.02	60.20	0.00	098.10	097.47	097.39	098.63
3	11.90	0.00	?UNDEF	000.00	13.20	0.00	094.95	098.33	61.50	0.00	098.01	097.53	097.30	098.55
4	12.00	0.00	?UNDEF	000.00	11.70	0.00	094.85	097.58	60.20	0.00	097.94	097.33	097.10	098.20
5	12.00	0.00	?UNDEF	000.00	11.70	0.00	095.06	097.67	60.20	0.00	097.90	097.54	097.42	097.87
6	12.00	0.00	?UNDEF	000.00	11.70	0.00	095.00	097.75	83.10	0.00	097.94	097.44	097.34	097.78
7	12.00	0.00	?UNDEF	000.00	11.80	0.00	094.87	098.05	83.10	0.00	097.83	097.90	097.66	097.71
8	12.90	0.00	?UNDEF	000.00	13.70	0.00	095.07	098.69	87.20	0.00	097.66	097.70	097.73	097.76
9	13.00	0.00	?UNDEF	000.00	14.10	0.00	095.16	097.94	91.80	0.00	097.75	097.81	097.94	097.70
10	13.00	0.00	?UNDEF	000.00	14.30	0.00	095.26	098.30	92.00	0.00	098.12	097.90	098.18	098.01
11	14.90	0.00	?UNDEF	000.00	12.70	0.00	095.34	098.54	92.70	0.00	098.27	097.69	097.98	098.10
12	13.40	0.00	?UNDEF	000.00	13.10	0.00	095.52	099.49	93.40	0.00	098.20	097.73	097.99	098.43
13	13.40	0.00	?UNDEF	000.00	12.90	0.00	095.40	099.63	93.50	0.00	098.18	097.45	098.00	098.61
14	13.50	0.00	?UNDEF	000.00	12.80	0.00	095.44	102.86	92.80	0.00	098.03	097.68	097.86	098.80
15	13.20	0.00	?UNDEF	000.00	14.40	0.00	095.56	108.43	93.40	0.00	098.22	098.13	097.92	098.99
16	14.80	0.00	?UNDEF	000.00	14.40	0.00	095.45	109.13	93.40	0.00	098.18	098.66	098.17	099.00
17	13.30	0.00	?UNDEF	000.00	12.70	0.00	095.63	103.49	99.40	0.00	098.38	098.69	098.18	099.33
18	13.40	0.00	?UNDEF	000.00	12.90	0.00	095.86	102.65	101.60	0.00	098.27	098.44	098.18	099.45
19	13.70	0.00	?UNDEF	000.00	14.20	0.00	096.18	104.81	103.50	0.00	098.44	098.59	098.24	099.29
20	14.90	0.00	?UNDEF	000.00	12.60	0.00	096.07	102.85	103.50	0.00	098.43	098.75	098.12	099.21
21	13.40	0.00	?UNDEF	000.00	12.60	0.00	096.13	100.07	111.60	0.00	098.52	098.81	098.06	099.17
22	13.30	0.00	?UNDEF	000.00	14.00	0.00	096.07	099.93	111.30	0.00	098.64	098.78	098.15	099.21
23	13.40	0.00	?UNDEF	000.00	12.60	0.00	096.38	099.91	108.50	0.00	098.36	098.81	098.16	099.16
24	13.40	0.00	?UNDEF	000.00	12.50	0.00	096.02	099.44	80.80	0.00	098.56	098.73	098.12	099.16

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	DWRSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.40	0.00	104.20	?UNDEF	?UNDEF	?UNDEF	12.00	0.00	091.54	095.28	12.70	0.00	?UNDEF	?UNDEF
2	1.40	0.00	104.14	?UNDEF	?UNDEF	?UNDEF	12.00	0.00	091.91	095.10	14.20	0.00	?UNDEF	?UNDEF
3	1.40	0.00	104.09	?UNDEF	?UNDEF	?UNDEF	13.80	0.00	091.79	094.94	13.20	0.00	?UNDEF	?UNDEF
4	1.40	0.00	104.19	?UNDEF	?UNDEF	?UNDEF	13.80	0.00	091.59	095.46	13.00	0.00	?UNDEF	?UNDEF
5	1.50	0.00	104.11	?UNDEF	?UNDEF	?UNDEF	11.60	0.00	091.37	095.38	13.80	0.00	?UNDEF	?UNDEF
6	1.40	0.00	104.08	?UNDEF	?UNDEF	?UNDEF	11.80	0.00	091.07	095.08	11.80	0.00	?UNDEF	?UNDEF
7	1.40	0.00	103.89	?UNDEF	?UNDEF	?UNDEF	11.80	0.00	091.04	094.77	13.20	0.00	?UNDEF	?UNDEF
8	1.40	0.00	103.96	?UNDEF	?UNDEF	?UNDEF	11.70	0.00	090.71	094.72	11.80	0.00	?UNDEF	?UNDEF
9	1.40	0.00	104.16	?UNDEF	?UNDEF	?UNDEF	11.50	0.00	091.35	094.70	11.70	0.00	?UNDEF	?UNDEF
10	1.40	0.00	104.72	?UNDEF	?UNDEF	?UNDEF	11.80	0.00	092.14	094.78	11.70	0.00	?UNDEF	?UNDEF
11	1.40	0.00	104.95	?UNDEF	?UNDEF	?UNDEF	12.00	0.00	092.00	094.79	11.60	0.00	?UNDEF	?UNDEF
12	1.40	0.00	105.52	?UNDEF	?UNDEF	?UNDEF	11.60	0.00	091.44	094.73	11.60	0.00	?UNDEF	?UNDEF
13	1.40	0.00	105.79	?UNDEF	?UNDEF	?UNDEF	12.40	0.00	091.35	095.19	11.80	0.00	?UNDEF	?UNDEF
14	1.40	0.00	105.69	?UNDEF	?UNDEF	?UNDEF	13.00	0.00	091.50	097.60	11.70	0.00	?UNDEF	?UNDEF
15	1.40	0.00	106.09	?UNDEF	?UNDEF	?UNDEF	11.70	0.00	091.24	097.19	13.20	0.00	?UNDEF	?UNDEF
16	1.40	0.00	106.05	?UNDEF	?UNDEF	?UNDEF	11.70	0.00	091.38	096.11	11.70	0.00	?UNDEF	?UNDEF
17	1.40	0.00	105.54	?UNDEF	?UNDEF	?UNDEF	13.70	0.00	091.41	095.76	11.70	0.00	?UNDEF	?UNDEF
18	1.40	0.00	104.85	?UNDEF	?UNDEF	?UNDEF	11.90	0.00	090.86	096.30	11.70	0.00	?UNDEF	?UNDEF
19	1.50	0.00	105.54	?UNDEF	?UNDEF	?UNDEF	12.10	0.00	090.56	095.59	12.00	0.00	?UNDEF	?UNDEF
20	1.40	0.00	104.02	?UNDEF	?UNDEF	?UNDEF	11.80	0.00	091.46	095.31	11.80	0.00	?UNDEF	?UNDEF
21	1.40	0.00	103.53	?UNDEF	?UNDEF	?UNDEF	11.70	0.00	091.71	095.01	13.20	0.00	?UNDEF	?UNDEF
22	1.40	0.00	103.14	?UNDEF	?UNDEF	?UNDEF	11.90	0.00	091.84	094.88	11.70	0.00	?UNDEF	?UNDEF
23	1.40	0.00	103.18	?UNDEF	?UNDEF	?UNDEF	11.70	0.00	091.98	094.90	11.90	0.00	?UNDEF	?UNDEF
24	1.40	0.00	103.66	?UNDEF	?UNDEF	?UNDEF	11.70	0.00	092.22	094.73	11.70	0.00	?UNDEF	?UNDEF
	LOWER MONUMENTAL			ICE HARBOR			MCNARY			PASCO				
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	12.90	0.00	?UNDEF	000.00	11.00	0.00	095.06	097.14	59.30	0.00	097.85	097.99	097.66	097.90
2	12.40	0.00	?UNDEF	000.00	10.50	0.00	095.06	097.08	56.50	0.00	097.65	097.81	097.63	097.72
3	12.40	0.00	?UNDEF	000.00	10.50	0.00	094.98	097.08	66.30	0.00	097.77	097.70	097.70	097.58
4	12.40	0.00	?UNDEF	000.00	10.60	0.00	095.02	096.92	74.90	0.00	097.75	097.64	097.68	097.40
5	11.90	0.00	?UNDEF	000.00	13.70	0.00	094.78	096.88	65.10	0.00	097.55	097.73	097.38	097.39
6	11.90	0.00	?UNDEF	000.00	10.50	0.00	094.90	097.12	82.30	0.00	097.63	097.57	097.10	097.30
7	13.40	0.00	?UNDEF	000.00	10.50	0.00	094.73	097.45	73.10	0.00	097.34	097.39	097.14	097.30
8	12.10	0.00	?UNDEF	000.00	10.50	0.00	094.58	097.73	73.30	0.00	097.25	097.34	096.98	097.08
9	13.40	0.00	?UNDEF	000.00	10.40	0.00	094.60	097.70	78.20	0.00	097.37	097.43	097.06	097.16
10	11.90	0.00	?UNDEF	000.00	10.70	0.00	094.58	098.03	79.50	0.00	097.36	097.29	097.30	097.26
11	11.80	0.00	?UNDEF	000.00	12.00	0.00	094.69	098.15	79.30	0.00	097.77	096.89	097.69	097.51
12	11.80	0.00	?UNDEF	000.00	11.90	0.00	094.74	099.75	79.20	0.00	097.62	097.17	097.98	097.95
13	11.80	0.00	?UNDEF	000.00	10.30	0.00	094.77	098.84	79.20	0.00	097.71	097.40	098.14	098.22
14	12.00	0.00	?UNDEF	000.00	10.60	0.00	094.65	099.35	79.50	0.00	098.46	097.03	098.25	098.64
15	11.80	0.00	?UNDEF	000.00	12.00	0.00	094.71	099.15	79.70	0.00	098.57	097.51	098.23	098.80
16	13.50	0.00	?UNDEF	000.00	10.40	0.00	094.72	100.26	80.30	0.00	098.64	097.59	098.04	099.12
17	12.00	0.00	?UNDEF	000.00	10.40	0.00	094.75	099.85	80.60	0.00	098.55	097.76	097.95	099.41
18	12.00	0.00	?UNDEF	000.00	10.40	0.00	094.85	099.70	80.60	0.00	098.46	097.61	097.65	099.53
19	12.30	0.00	?UNDEF	000.00	12.00	0.00	094.85	099.55	84.60	0.00	098.59	097.48	097.28	099.51
20	12.00	0.00	?UNDEF	000.00	10.40	0.00	094.87	099.31	84.00	0.00	098.46	097.49	097.25	099.51
21	12.00	0.00	?UNDEF	000.00	11.70	0.00	094.83	098.35	67.10	0.00	098.45	097.56	096.93	099.60
22	11.90	0.00	?UNDEF	000.00	11.50	0.00	*****	097.90	65.90	0.00	098.28	097.42	096.77	099.32
23	11.90	0.00	?UNDEF	000.00	11.70	0.00	094.65	097.90	65.70	0.00	*****	097.50	097.03	000.00
24	13.50	0.00	?UNDEF	000.00	11.80	0.00	094.50	098.71	60.00	0.00	000.00	097.13	096.90	000.00

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	DWRSHAK			STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.40	0.00	105.18	?UNDEF	?UNDEF	?UNDEF	13.70	0.00	091.03	095.16	13.50	0.00	?UNDEF	?UNDEF
2	1.40	0.00	105.01	?UNDEF	?UNDEF	?UNDEF	13.80	0.00	090.62	094.78	11.80	0.00	?UNDEF	?UNDEF
3	1.50	0.00	104.79	?UNDEF	?UNDEF	?UNDEF	13.80	0.00	090.03	094.69	13.30	0.00	?UNDEF	?UNDEF
4	1.40	0.00	104.38	?UNDEF	?UNDEF	?UNDEF	13.80	0.00	090.26	094.53	12.00	0.00	?UNDEF	?UNDEF
5	1.40	0.00	104.44	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	090.13	094.40	11.80	0.00	?UNDEF	?UNDEF
6	1.40	0.00	104.72	?UNDEF	?UNDEF	?UNDEF	15.50	0.00	090.53	094.82	11.80	0.00	?UNDEF	?UNDEF
7	1.40	0.00	105.01	?UNDEF	?UNDEF	?UNDEF	13.80	0.00	090.95	095.09	11.80	0.00	?UNDEF	?UNDEF
8	1.40	0.00	105.11	?UNDEF	?UNDEF	?UNDEF	13.80	0.00	091.09	095.08	11.80	0.00	?UNDEF	?UNDEF
9	1.40	0.00	105.38	?UNDEF	?UNDEF	?UNDEF	15.50	0.00	091.21	095.74	12.00	0.00	?UNDEF	?UNDEF
10	1.40	0.00	105.68	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	091.08	095.51	11.80	0.00	?UNDEF	?UNDEF
11	1.40	0.00	105.97	?UNDEF	?UNDEF	?UNDEF	13.80	0.00	091.28	095.28	11.70	0.00	?UNDEF	?UNDEF
12	1.40	0.00	106.24	?UNDEF	?UNDEF	?UNDEF	17.00	0.00	091.83	094.59	11.70	0.00	?UNDEF	?UNDEF
13	1.40	0.00	106.55	?UNDEF	?UNDEF	?UNDEF	17.10	0.00	091.99	094.63	11.70	0.00	?UNDEF	?UNDEF
14	1.40	0.00	106.76	?UNDEF	?UNDEF	?UNDEF	17.20	0.00	091.96	094.47	11.90	0.00	?UNDEF	?UNDEF
15	1.40	0.00	107.00	?UNDEF	?UNDEF	?UNDEF	17.50	0.00	091.89	094.73	11.70	0.00	?UNDEF	?UNDEF
16	1.40	0.00	106.75	?UNDEF	?UNDEF	?UNDEF	17.20	0.00	091.57	094.77	11.80	0.00	?UNDEF	?UNDEF
17	1.40	0.00	106.01	?UNDEF	?UNDEF	?UNDEF	19.10	0.00	092.39	094.66	17.40	0.00	?UNDEF	?UNDEF
18	1.40	0.00	105.59	?UNDEF	?UNDEF	?UNDEF	17.20	0.00	092.54	095.46	20.00	0.00	?UNDEF	?UNDEF
19	1.40	0.00	106.01	?UNDEF	?UNDEF	?UNDEF	17.10	0.00	092.29	094.55	20.50	0.00	?UNDEF	?UNDEF
20	1.50	0.00	104.59	?UNDEF	?UNDEF	?UNDEF	18.90	0.00	092.75	094.60	21.50	0.00	?UNDEF	?UNDEF
21	1.40	0.00	104.40	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	092.68	094.96	16.90	0.00	?UNDEF	?UNDEF
22	1.40	0.00	104.33	?UNDEF	?UNDEF	?UNDEF	13.70	0.00	092.51	094.87	16.60	0.00	?UNDEF	?UNDEF
23	1.40	0.00	104.25	?UNDEF	?UNDEF	?UNDEF	12.10	0.00	092.45	094.85	16.80	0.00	?UNDEF	?UNDEF
24	1.40	0.00	104.31	?UNDEF	?UNDEF	?UNDEF	13.60	0.00	092.12	095.70	13.40	0.00	?UNDEF	?UNDEF
	LOWER MONUMENTAL			ICE HARBOR			MCNARY				PASCO			
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	12.30	0.00	?UNDEF	000.00	10.70	0.00	095.31	098.18	64.40	0.00	098.78	098.55	098.20	098.67
2	12.20	0.00	?UNDEF	000.00	12.30	0.00	095.34	099.56	64.40	0.00	098.65	098.58	098.10	098.57
3	12.20	0.00	?UNDEF	000.00	10.80	0.00	095.36	098.51	64.90	0.00	098.57	098.75	097.98	098.46
4	14.40	0.00	?UNDEF	000.00	10.90	0.00	095.39	098.38	64.60	0.00	098.60	098.65	097.88	098.27
5	12.10	0.00	?UNDEF	000.00	10.90	0.00	095.35	098.40	64.70	0.00	098.32	098.90	098.15	098.09
6	12.30	0.00	?UNDEF	000.00	12.60	0.00	095.40	098.28	64.90	0.00	098.33	098.65	097.98	097.96
7	12.10	0.00	?UNDEF	000.00	11.00	0.00	095.27	099.47	69.10	0.00	098.03	098.51	098.00	097.82
8	12.30	0.00	?UNDEF	000.00	11.10	0.00	095.22	098.80	64.80	0.00	098.04	098.62	098.40	097.66
9	12.30	0.00	?UNDEF	000.00	11.10	0.00	095.19	098.47	64.70	0.00	098.30	098.62	098.37	097.66
10	12.30	0.00	?UNDEF	000.00	11.10	0.00	095.52	098.97	64.50	0.00	098.27	098.90	098.80	097.90
11	12.20	0.00	?UNDEF	000.00	14.70	0.00	095.54	100.19	64.60	0.00	098.15	098.55	099.30	098.17
12	12.30	0.00	?UNDEF	000.00	13.00	0.00	095.36	099.48	64.60	0.00	098.28	098.92	099.41	098.31
13	14.00	0.00	?UNDEF	000.00	13.00	0.00	095.35	099.42	64.80	0.00	098.62	098.87	099.22	098.50
14	12.30	0.00	?UNDEF	000.00	13.00	0.00	095.38	099.52	64.30	0.00	098.53	098.70	098.96	098.61
15	12.30	0.00	?UNDEF	000.00	13.10	0.00	095.43	100.16	64.40	0.00	098.50	098.74	098.92	098.75
16	12.30	0.00	?UNDEF	000.00	17.50	0.00	095.38	099.52	69.20	0.00	098.53	098.55	098.97	098.90
17	12.40	0.00	?UNDEF	000.00	18.50	0.00	095.52	098.95	69.50	0.00	098.67	098.71	098.84	098.85
18	17.50	0.00	?UNDEF	000.00	22.00	0.00	095.49	098.76	69.60	0.00	098.76	098.62	098.46	098.82
19	17.80	0.00	?UNDEF	000.00	20.80	0.00	095.41	098.25	70.80	0.00	098.43	098.34	098.22	098.71
20	18.10	0.00	?UNDEF	000.00	22.40	0.00	095.31	097.76	70.30	0.00	098.33	097.97	098.01	098.62
21	17.80	0.00	?UNDEF	000.00	21.00	0.00	095.38	098.00	78.00	0.00	098.14	097.71	098.10	098.60
22	19.10	0.00	?UNDEF	000.00	20.90	0.00	095.33	097.36	77.90	0.00	097.97	097.91	097.91	098.57
23	17.50	0.00	?UNDEF	000.00	21.10	0.00	095.14	098.00	76.90	0.00	097.94	097.84	097.72	098.37
24	18.80	0.00	?UNDEF	000.00	20.60	0.00	095.12	097.30	64.80	0.00	098.00	097.52	097.67	098.37

07 OCT 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

07 OCT 2001

	DWORKSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	
1	1.40	0.00	105.03	?UNDEF	?UNDEF	?UNDEF	16.20	0.00	091.90	093.90	11.80	0.00	?UNDEF	?UNDEF	
2	1.40	0.00	105.04	?UNDEF	?UNDEF	?UNDEF	14.70	0.00	091.73	093.90	12.00	0.00	?UNDEF	?UNDEF	
3	1.40	0.00	104.88	?UNDEF	?UNDEF	?UNDEF	14.40	0.00	091.46	093.57	11.80	0.00	?UNDEF	?UNDEF	
4	1.40	0.00	104.85	?UNDEF	?UNDEF	?UNDEF	14.40	0.00	091.43	093.67	11.80	0.00	?UNDEF	?UNDEF	
5	1.40	0.00	104.93	?UNDEF	?UNDEF	?UNDEF	14.30	0.00	091.83	093.54	11.80	0.00	?UNDEF	?UNDEF	
6	1.40	0.00	104.90	?UNDEF	?UNDEF	?UNDEF	14.40	0.00	091.41	093.26	11.80	0.00	?UNDEF	?UNDEF	
7	1.40	0.00	104.77	?UNDEF	?UNDEF	?UNDEF	14.60	0.00	091.51	093.39	12.00	0.00	?UNDEF	?UNDEF	
8	1.40	0.00	104.75	?UNDEF	?UNDEF	?UNDEF	14.30	0.00	090.55	093.66	11.80	0.00	?UNDEF	?UNDEF	
9	1.40	0.00	104.89	?UNDEF	?UNDEF	?UNDEF	14.40	0.00	090.38	093.72	11.80	0.00	?UNDEF	?UNDEF	
10	1.40	0.00	105.41	?UNDEF	?UNDEF	?UNDEF	14.40	0.00	090.71	093.76	11.80	0.00	?UNDEF	?UNDEF	
11	1.40	0.00	106.16	?UNDEF	?UNDEF	?UNDEF	14.40	0.00	092.08	093.39	11.80	0.00	?UNDEF	?UNDEF	
12	1.40	0.00	106.43	?UNDEF	?UNDEF	?UNDEF	14.40	0.00	091.53	093.10	12.00	0.00	?UNDEF	?UNDEF	
13	1.40	0.00	106.61	?UNDEF	?UNDEF	?UNDEF	14.60	0.00	091.81	093.26	11.80	0.00	?UNDEF	?UNDEF	
14	1.40	0.00	106.87	?UNDEF	?UNDEF	?UNDEF	16.10	0.00	092.75	094.33	12.80	0.00	?UNDEF	?UNDEF	
15	1.40	0.00	107.11	?UNDEF	?UNDEF	?UNDEF	16.10	0.00	092.80	095.46	12.00	0.00	?UNDEF	?UNDEF	
16	1.40	0.00	107.04	?UNDEF	?UNDEF	?UNDEF	14.40	0.00	093.07	095.46	11.80	0.00	?UNDEF	?UNDEF	
17	1.40	0.00	106.47	?UNDEF	?UNDEF	?UNDEF	16.10	0.00	093.18	095.19	11.80	0.00	?UNDEF	?UNDEF	
18	1.40	0.00	105.91	?UNDEF	?UNDEF	?UNDEF	14.70	0.00	092.88	095.01	13.30	0.00	?UNDEF	?UNDEF	
19	1.40	0.00	106.47	?UNDEF	?UNDEF	?UNDEF	14.40	0.00	092.66	094.08	11.80	0.00	?UNDEF	?UNDEF	
20	1.40	0.00	105.19	?UNDEF	?UNDEF	?UNDEF	14.50	0.00	093.05	093.97	12.00	0.00	?UNDEF	?UNDEF	
21	1.40	0.00	104.86	?UNDEF	?UNDEF	?UNDEF	16.20	0.00	091.53	093.78	11.80	0.00	?UNDEF	?UNDEF	
22	1.40	0.00	104.80	?UNDEF	?UNDEF	?UNDEF	14.50	0.00	090.33	093.97	11.80	0.00	?UNDEF	?UNDEF	
23	1.40	0.00	104.80	?UNDEF	?UNDEF	?UNDEF	15.90	0.00	091.51	095.28	11.80	0.00	?UNDEF	?UNDEF	
24	1.40	0.00	105.01	?UNDEF	?UNDEF	?UNDEF	13.80	0.00	091.77	095.64	11.80	0.00	?UNDEF	?UNDEF	
	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT	
1	12.10	0.00	?UNDEF	000.00	11.60	0.00	095.47	098.03	55.10	0.00	099.47	098.74	098.37	100.12	
2	13.60	0.00	?UNDEF	000.00	11.50	0.00	095.30	098.06	55.00	0.00	098.61	098.70	098.19	099.99	
3	12.30	0.00	?UNDEF	000.00	11.60	0.00	095.43	098.02	55.40	0.00	098.48	098.43	098.06	099.75	
4	12.10	0.00	?UNDEF	000.00	13.20	0.00	095.41	098.02	55.50	0.00	098.78	098.31	098.21	099.59	
5	12.10	0.00	?UNDEF	000.00	11.50	0.00	095.65	098.03	62.40	0.00	099.17	098.02	098.23	099.47	
6	12.80	0.00	?UNDEF	000.00	11.50	0.00	095.53	098.18	63.00	0.00	099.29	098.29	098.10	099.20	
7	12.10	0.00	?UNDEF	000.00	12.90	0.00	095.41	098.18	63.00	0.00	099.14	098.14	098.23	099.03	
8	12.30	0.00	?UNDEF	000.00	11.40	0.00	095.29	098.19	64.80	0.00	098.91	098.29	098.33	098.90	
9	12.20	0.00	?UNDEF	000.00	11.60	0.00	095.25	098.99	66.40	0.00	099.14	098.12	098.44	098.75	
10	12.10	0.00	?UNDEF	000.00	11.40	0.00	095.25	098.86	64.90	0.00	098.99	098.09	098.28	098.44	
11	12.20	0.00	?UNDEF	000.00	11.40	0.00	095.24	098.47	63.70	0.00	098.98	098.34	098.36	098.60	
12	12.10	0.00	?UNDEF	000.00	12.90	0.00	095.33	099.50	62.80	0.00	099.02	098.95	098.40	098.56	
13	12.20	0.00	?UNDEF	000.00	11.20	0.00	095.64	099.22	63.60	0.00	099.15	098.66	098.57	098.69	
14	12.20	0.00	?UNDEF	000.00	11.40	0.00	095.62	098.98	63.60	0.00	099.47	098.63	098.62	098.83	
15	13.80	0.00	?UNDEF	000.00	11.20	0.00	095.68	099.08	63.00	0.00	099.54	099.07	098.78	099.05	
16	12.20	0.00	?UNDEF	000.00	11.20	0.00	095.50	099.32	63.20	0.00	099.35	099.03	098.62	099.02	
17	13.60	0.00	?UNDEF	000.00	12.50	0.00	095.37	099.95	63.40	0.00	099.23	098.89	098.64	099.02	
18	12.20	0.00	?UNDEF	000.00	11.00	0.00	095.47	098.88	64.60	0.00	099.19	098.69	098.48	099.12	
19	12.10	0.00	?UNDEF	000.00	11.30	0.00	095.30	098.60	65.20	0.00	099.17	098.58	098.73	099.08	
20	12.30	0.00	?UNDEF	000.00	11.10	0.00	095.16	098.43	66.60	0.00	098.87	098.43	098.98	099.05	
21	12.10	0.00	?UNDEF	000.00	12.50	0.00	095.34	098.46	65.00	0.00	099.05	098.67	098.73	098.93	
22	12.10	0.00	?UNDEF	000.00	11.00	0.00	095.47	099.36	63.10	0.00	098.93	098.70	098.60	098.93	
23	12.10	0.00	?UNDEF	000.00	11.00	0.00	095.34	098.72	63.00	0.00	099.06	098.73	098.61	098.83	
24	12.10	0.00	?UNDEF	000.00	11.20	0.00	095.28	098.33	62.60	0.00	098.78	098.33	098.36	098.83	

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WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

06 OCT 2001

DWRSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	
1	1.40	0.00	104.91	?UNDEF	?UNDEF	?UNDEF	14.40	0.00	093.76	095.74	12.60	0.00	?UNDEF	?UNDEF	
2	1.40	0.00	104.96	?UNDEF	?UNDEF	?UNDEF	14.30	0.00	093.70	094.63	12.50	0.00	?UNDEF	?UNDEF	
3	1.40	0.00	104.80	?UNDEF	?UNDEF	?UNDEF	14.30	0.00	092.90	094.11	13.90	0.00	?UNDEF	?UNDEF	
4	1.40	0.00	104.80	?UNDEF	?UNDEF	?UNDEF	14.30	0.00	093.05	093.96	14.10	0.00	?UNDEF	?UNDEF	
5	1.40	0.00	104.69	?UNDEF	?UNDEF	?UNDEF	16.10	0.00	093.00	093.93	17.20	0.00	?UNDEF	?UNDEF	
6	1.40	0.00	104.73	?UNDEF	?UNDEF	?UNDEF	16.50	0.00	092.83	093.78	18.60	0.00	?UNDEF	?UNDEF	
7	1.40	0.00	104.69	?UNDEF	?UNDEF	?UNDEF	16.20	0.00	092.44	093.81	18.60	0.00	?UNDEF	?UNDEF	
8	1.40	0.00	104.82	?UNDEF	?UNDEF	?UNDEF	16.40	0.00	093.53	093.78	17.20	0.00	?UNDEF	?UNDEF	
9	1.40	0.00	105.12	?UNDEF	?UNDEF	?UNDEF	14.40	0.00	093.76	093.60	17.20	0.00	?UNDEF	?UNDEF	
10	1.40	0.00	105.26	?UNDEF	?UNDEF	?UNDEF	14.20	0.00	093.80	094.06	14.90	0.00	?UNDEF	?UNDEF	
11	1.40	0.00	105.76	?UNDEF	?UNDEF	?UNDEF	14.20	0.00	093.93	094.20	15.00	0.00	?UNDEF	?UNDEF	
12	1.40	0.00	106.28	?UNDEF	?UNDEF	?UNDEF	13.20	0.00	094.30	094.56	12.60	0.00	?UNDEF	?UNDEF	
13	1.40	0.00	106.95	?UNDEF	?UNDEF	?UNDEF	11.80	0.00	093.69	095.03	11.80	0.00	?UNDEF	?UNDEF	
14	1.40	0.00	107.49	?UNDEF	?UNDEF	?UNDEF	13.60	0.00	093.72	095.21	11.70	0.00	?UNDEF	?UNDEF	
15	1.40	0.00	107.70	?UNDEF	?UNDEF	?UNDEF	11.90	0.00	093.48	096.03	13.20	0.00	?UNDEF	?UNDEF	
16	1.40	0.00	107.61	?UNDEF	?UNDEF	?UNDEF	13.90	0.00	093.50	096.56	11.90	0.00	?UNDEF	?UNDEF	
17	1.40	0.00	106.99	?UNDEF	?UNDEF	?UNDEF	11.90	0.00	093.19	095.58	11.80	0.00	?UNDEF	?UNDEF	
18	1.40	0.00	106.41	?UNDEF	?UNDEF	?UNDEF	17.60	0.00	092.64	095.98	11.80	0.00	?UNDEF	?UNDEF	
19	1.40	0.00	106.99	?UNDEF	?UNDEF	?UNDEF	16.10	0.00	092.07	095.82	11.80	0.00	?UNDEF	?UNDEF	
20	1.40	0.00	105.46	?UNDEF	?UNDEF	?UNDEF	17.90	0.00	092.01	095.07	11.80	0.00	?UNDEF	?UNDEF	
21	1.40	0.00	105.23	?UNDEF	?UNDEF	?UNDEF	16.40	0.00	091.17	094.91	12.00	0.00	?UNDEF	?UNDEF	
22	1.40	0.00	105.23	?UNDEF	?UNDEF	?UNDEF	16.20	0.00	092.66	094.51	11.80	0.00	?UNDEF	?UNDEF	
23	1.40	0.00	105.16	?UNDEF	?UNDEF	?UNDEF	16.20	0.00	092.79	094.23	13.30	0.00	?UNDEF	?UNDEF	
24	1.40	0.00	105.11	?UNDEF	?UNDEF	?UNDEF	16.20	0.00	092.17	094.03	11.80	0.00	?UNDEF	?UNDEF	
LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT	
1	13.80	0.00	?UNDEF	000.00	13.10	0.00	095.47	097.96	60.00	0.00	099.22	100.60	098.61	099.67	
2	13.80	0.00	?UNDEF	000.00	13.30	0.00	095.32	097.83	59.90	0.00	098.81	100.47	098.88	099.53	
3	15.40	0.00	?UNDEF	000.00	13.10	0.00	095.33	097.84	60.00	0.00	098.67	100.98	098.74	099.36	
4	14.20	0.00	?UNDEF	000.00	13.10	0.00	095.32	097.84	60.10	0.00	098.53	100.45	098.86	099.10	
5	16.10	0.00	?UNDEF	000.00	20.60	0.00	095.43	097.80	60.10	0.00	098.62	100.19	098.71	098.96	
6	16.80	0.00	?UNDEF	000.00	20.70	0.00	095.79	097.80	60.50	0.00	098.60	099.83	098.70	098.79	
7	17.00	0.00	?UNDEF	000.00	20.80	0.00	095.83	098.10	59.90	0.00	098.61	099.99	098.54	098.82	
8	17.00	0.00	?UNDEF	000.00	22.70	0.00	095.70	098.08	60.20	0.00	098.71	100.00	098.41	098.78	
9	16.80	0.00	?UNDEF	000.00	20.80	0.00	095.70	098.10	60.40	0.00	098.85	099.96	098.54	098.92	
10	14.70	0.00	?UNDEF	000.00	18.30	0.00	095.66	098.24	60.30	0.00	099.09	099.99	098.78	099.14	
11	15.20	0.00	?UNDEF	000.00	15.10	0.00	095.71	098.46	60.30	0.00	099.79	100.04	099.24	099.46	
12	13.00	0.00	?UNDEF	000.00	12.50	0.00	096.12	099.28	59.40	0.00	100.31	100.07	099.83	099.69	
13	13.60	0.00	?UNDEF	000.00	12.00	0.00	096.04	098.92	57.20	0.00	099.79	100.27	100.68	100.07	
14	12.10	0.00	?UNDEF	000.00	11.80	0.00	095.78	099.08	55.40	0.00	101.15	100.03	100.83	100.35	
15	12.10	0.00	?UNDEF	000.00	13.30	0.00	095.84	099.31	55.30	0.00	102.11	100.05	100.84	100.65	
16	12.10	0.00	?UNDEF	000.00	11.80	0.00	095.99	099.55	55.40	0.00	101.18	099.23	100.55	100.93	
17	12.30	0.00	?UNDEF	000.00	13.40	0.00	095.97	100.35	55.60	0.00	100.61	099.85	100.29	100.93	
18	12.10	0.00	?UNDEF	000.00	12.10	0.00	095.85	099.76	55.60	0.00	100.62	099.23	100.05	100.66	
19	12.10	0.00	?UNDEF	000.00	11.90	0.00	095.87	099.31	55.60	0.00	100.36	099.23	099.37	100.74	
20	12.10	0.00	?UNDEF	000.00	11.90	0.00	095.64	099.44	55.20	0.00	100.07	098.96	098.84	100.73	
21	12.10	0.00	?UNDEF	000.00	11.90	0.00	095.50	099.16	55.40	0.00	099.92	098.82	098.58	100.69	
22	12.40	0.00	?UNDEF	000.00	11.80	0.00	095.47	098.74	55.10	0.00	099.74	099.11	098.42	100.69	
23	12.10	0.00	?UNDEF	000.00	11.90	0.00	095.30	098.86	55.30	0.00	099.62	099.04	098.36	100.81	
24	12.10	0.00	?UNDEF	000.00	11.70	0.00	095.40	098.14	55.20	0.00	099.71	098.99	098.37	100.81	

05 OCT 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
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	DWRSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR :	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	
1 :	1.40	0.00	104.97	?UNDEF	?UNDEF	?UNDEF	12.00	0.00	094.36	094.75	11.80	0.00	?UNDEF	?UNDEF	
2 :	1.40	0.00	105.10	?UNDEF	?UNDEF	?UNDEF	11.90	0.00	094.08	094.72	11.80	0.00	?UNDEF	?UNDEF	
3 :	1.40	0.00	104.68	?UNDEF	?UNDEF	?UNDEF	11.90	0.00	093.69	094.59	12.00	0.00	?UNDEF	?UNDEF	
4 :	1.40	0.00	104.28	?UNDEF	?UNDEF	?UNDEF	12.40	0.00	093.88	094.48	11.80	0.00	?UNDEF	?UNDEF	
5 :	1.50	0.00	104.01	?UNDEF	?UNDEF	?UNDEF	12.20	0.00	094.01	094.56	11.80	0.00	?UNDEF	?UNDEF	
6 :	1.40	0.00	104.00	?UNDEF	?UNDEF	?UNDEF	12.30	0.00	093.91	094.54	13.30	0.00	?UNDEF	?UNDEF	
7 :	1.50	0.00	103.97	?UNDEF	?UNDEF	?UNDEF	12.60	0.00	093.88	094.53	11.80	0.00	?UNDEF	?UNDEF	
8 :	1.40	0.00	103.97	?UNDEF	?UNDEF	?UNDEF	12.70	0.00	093.72	094.47	12.70	0.00	?UNDEF	?UNDEF	
9 :	1.50	0.00	104.26	?UNDEF	?UNDEF	?UNDEF	11.90	0.00	093.29	094.46	12.60	0.00	?UNDEF	?UNDEF	
10 :	1.40	0.00	104.58	?UNDEF	?UNDEF	?UNDEF	11.50	0.00	092.80	094.51	11.80	0.00	?UNDEF	?UNDEF	
11 :	1.50	0.00	104.93	?UNDEF	?UNDEF	?UNDEF	11.50	0.00	093.51	094.53	11.80	0.00	?UNDEF	?UNDEF	
12 :	1.40	0.00	105.49	?UNDEF	?UNDEF	?UNDEF	20.70	9.20	093.61	103.04	11.70	0.00	?UNDEF	?UNDEF	
13 :	1.50	0.00	106.16	?UNDEF	?UNDEF	?UNDEF	13.60	2.10	093.55	105.28	11.80	0.00	?UNDEF	?UNDEF	
14 :	1.40	0.00	106.72	?UNDEF	?UNDEF	?UNDEF	11.50	0.00	093.65	100.05	12.00	0.00	?UNDEF	?UNDEF	
15 :	1.50	0.00	106.96	?UNDEF	?UNDEF	?UNDEF	11.70	0.00	093.83	098.50	11.80	0.00	?UNDEF	?UNDEF	
16 :	1.40	0.00	106.75	?UNDEF	?UNDEF	?UNDEF	11.50	0.00	093.10	097.23	11.80	0.00	?UNDEF	?UNDEF	
17 :	1.40	0.00	106.56	?UNDEF	?UNDEF	?UNDEF	11.40	0.00	094.39	096.51	11.80	0.00	?UNDEF	?UNDEF	
18 :	1.40	0.00	106.05	?UNDEF	?UNDEF	?UNDEF	11.50	0.00	095.39	095.88	11.80	0.00	?UNDEF	?UNDEF	
19 :	1.40	0.00	106.56	?UNDEF	?UNDEF	?UNDEF	11.60	0.00	095.35	095.46	12.00	0.00	?UNDEF	?UNDEF	
20 :	1.40	0.00	105.31	?UNDEF	?UNDEF	?UNDEF	16.00	0.00	095.23	095.31	12.60	0.00	?UNDEF	?UNDEF	
21 :	1.40	0.00	105.15	?UNDEF	?UNDEF	?UNDEF	14.30	0.00	095.33	094.91	12.60	0.00	?UNDEF	?UNDEF	
22 :	1.40	0.00	104.96	?UNDEF	?UNDEF	?UNDEF	14.20	0.00	095.32	094.91	12.50	0.00	?UNDEF	?UNDEF	
23 :	1.40	0.00	104.93	?UNDEF	?UNDEF	?UNDEF	15.90	0.00	094.60	094.59	12.50	0.00	?UNDEF	?UNDEF	
24 :	1.40	0.00	104.90	?UNDEF	?UNDEF	?UNDEF	16.00	0.00	093.78	095.08	14.20	0.00	?UNDEF	?UNDEF	
	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR :	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT	
1 :	12.00	0.00	?UNDEF	?UNDEF	12.50	0.00	096.64	098.16	61.70	0.00	098.55	099.92	098.86	100.07	
2 :	12.20	0.00	?UNDEF	?UNDEF	10.30	0.00	096.36	098.12	60.30	0.00	098.41	099.80	098.74	099.93	
3 :	12.00	0.00	?UNDEF	?UNDEF	11.10	0.00	096.10	098.03	72.40	0.00	098.28	099.25	098.60	099.67	
4 :	12.00	0.00	?UNDEF	?UNDEF	11.10	0.00	096.10	098.15	66.50	0.00	097.90	099.38	098.34	099.43	
5 :	12.00	0.00	?UNDEF	?UNDEF	11.40	0.00	095.84	098.08	74.90	0.00	098.02	099.51	098.19	098.89	
6 :	12.00	0.00	?UNDEF	?UNDEF	12.10	0.00	095.66	097.88	98.60	0.00	098.67	099.47	098.19	098.52	
7 :	11.90	0.00	?UNDEF	?UNDEF	11.80	0.00	095.67	098.03	98.30	0.00	098.49	099.59	098.43	098.20	
8 :	12.90	0.00	?UNDEF	?UNDEF	11.10	0.00	095.52	098.16	96.90	0.00	098.51	099.48	098.46	097.79	
9 :	13.30	0.00	?UNDEF	?UNDEF	11.40	0.00	095.24	098.32	97.60	0.00	098.48	099.72	098.53	097.75	
10 :	13.60	0.00	?UNDEF	?UNDEF	11.20	0.00	095.40	098.88	87.80	0.00	098.63	099.48	098.56	097.91	
11 :	12.10	0.00	?UNDEF	?UNDEF	11.00	0.00	095.31	098.75	86.90	0.00	099.34	099.30	098.91	098.24	
12 :	13.70	0.00	?UNDEF	?UNDEF	11.10	0.00	095.22	099.85	86.20	0.00	100.08	099.09	099.20	098.65	
13 :	12.20	0.00	?UNDEF	?UNDEF	13.10	0.00	095.30	100.12	85.90	0.00	100.32	100.77	099.46	099.18	
14 :	12.10	0.00	?UNDEF	*****	11.10	0.00	095.43	100.27	85.60	0.00	100.03	100.74	099.71	099.54	
15 :	12.30	0.00	?UNDEF	*****	11.30	0.00	095.52	100.16	85.30	0.00	100.92	101.24	099.93	100.07	
16 :	12.10	0.00	?UNDEF	*****	11.10	0.00	095.71	100.35	85.50	0.00	101.22	102.47	099.86	100.39	
17 :	12.10	0.00	?UNDEF	*****	11.10	0.00	095.64	100.39	96.50	0.00	101.02	102.54	099.92	100.58	
18 :	12.10	0.00	?UNDEF	*****	12.60	0.00	095.81	100.28	98.10	0.00	100.81	102.59	099.70	100.77	
19 :	12.10	0.00	?UNDEF	000.00	11.20	0.00	095.97	100.03	98.00	0.00	100.11	102.33	099.87	100.66	
20 :	12.90	0.00	?UNDEF	000.00	13.00	0.00	095.86	099.52	80.10	0.00	099.55	102.06	099.55	100.65	
21 :	13.40	0.00	?UNDEF	000.00	13.30	0.00	095.84	099.09	61.60	0.00	100.64	101.38	099.39	100.51	
22 :	13.80	0.00	?UNDEF	000.00	13.00	0.00	095.68	098.79	60.70	0.00	101.00	101.08	099.49	100.07	
23 :	13.70	0.00	?UNDEF	000.00	13.00	0.00	095.64	099.44	60.80	0.00	100.45	100.65	099.17	100.09	
24 :	13.80	0.00	?UNDEF	000.00	13.00	0.00	095.50	098.39	59.40	0.00	099.91	100.35	098.91	100.09	

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WALLA WALLA DISTRICT HYDRO PROJECTS
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	DWRSHAK			STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.60	0.00	103.83	?UNDEF	?UNDEF	?UNDEF	13.70	0.00	090.82	094.82	12.50	0.00	?UNDEF	?UNDEF
2	1.50	0.00	103.76	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	089.41	094.63	12.40	0.00	?UNDEF	?UNDEF
3	1.60	0.00	103.89	?UNDEF	?UNDEF	?UNDEF	15.50	0.00	090.49	094.50	12.70	0.00	?UNDEF	?UNDEF
4	1.50	0.00	103.72	?UNDEF	?UNDEF	?UNDEF	13.70	0.00	089.76	094.68	12.40	0.00	?UNDEF	?UNDEF
5	1.60	0.00	103.68	?UNDEF	?UNDEF	?UNDEF	13.80	0.00	089.75	094.64	13.40	0.00	?UNDEF	?UNDEF
6	1.50	0.00	103.73	?UNDEF	?UNDEF	?UNDEF	13.70	0.00	089.96	094.36	13.00	0.00	?UNDEF	?UNDEF
7	1.60	0.00	103.50	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	089.76	094.15	14.10	0.00	?UNDEF	?UNDEF
8	1.50	0.00	103.56	?UNDEF	?UNDEF	?UNDEF	13.30	0.00	089.95	094.05	12.70	0.00	?UNDEF	?UNDEF
9	1.60	0.00	103.81	?UNDEF	?UNDEF	?UNDEF	11.90	0.00	090.96	094.28	12.60	0.00	?UNDEF	?UNDEF
10	1.60	0.00	103.97	?UNDEF	?UNDEF	?UNDEF	11.90	0.00	090.14	094.52	12.00	0.00	?UNDEF	?UNDEF
11	1.50	0.00	104.33	?UNDEF	?UNDEF	?UNDEF	11.90	0.00	089.61	094.67	11.80	0.00	?UNDEF	?UNDEF
12	1.60	0.00	105.05	?UNDEF	?UNDEF	?UNDEF	12.20	0.00	089.62	?UNDEF	11.80	0.00	?UNDEF	?UNDEF
13	1.50	0.00	105.63	?UNDEF	?UNDEF	?UNDEF	11.80	0.00	089.96	094.82	12.00	0.00	?UNDEF	?UNDEF
14	1.60	0.00	105.99	?UNDEF	?UNDEF	?UNDEF	11.80	0.00	090.07	095.14	11.80	0.00	?UNDEF	?UNDEF
15	1.50	0.00	106.26	?UNDEF	?UNDEF	?UNDEF	12.20	0.00	089.58	095.05	13.50	0.00	?UNDEF	?UNDEF
16	1.60	0.00	106.54	?UNDEF	?UNDEF	?UNDEF	11.90	0.00	089.62	096.16	11.90	0.00	?UNDEF	?UNDEF
17	1.60	0.00	106.03	?UNDEF	?UNDEF	?UNDEF	11.90	0.00	089.37	097.15	13.50	0.00	?UNDEF	?UNDEF
18	1.40	0.00	105.21	?UNDEF	?UNDEF	?UNDEF	12.10	0.00	089.64	096.86	11.80	0.00	?UNDEF	?UNDEF
19	1.50	0.00	106.03	?UNDEF	?UNDEF	?UNDEF	11.90	0.00	093.67	095.87	11.90	0.00	?UNDEF	?UNDEF
20	1.40	0.00	107.47	?UNDEF	?UNDEF	?UNDEF	13.00	0.00	094.65	095.28	11.80	0.00	?UNDEF	?UNDEF
21	1.40	0.00	106.91	?UNDEF	?UNDEF	?UNDEF	13.20	0.00	094.34	094.86	11.80	0.00	?UNDEF	?UNDEF
22	1.40	0.00	105.13	?UNDEF	?UNDEF	?UNDEF	13.20	0.00	094.27	094.42	13.50	0.00	?UNDEF	?UNDEF
23	1.40	0.00	104.71	?UNDEF	?UNDEF	?UNDEF	13.40	0.00	094.28	093.87	11.80	0.00	?UNDEF	?UNDEF
24	1.40	0.00	104.83	?UNDEF	?UNDEF	?UNDEF	13.60	0.00	094.17	094.39	11.80	0.00	?UNDEF	?UNDEF

	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO
HOUR	TOTAL DISCH	SPILL	GAS FB	%SAT. TAILW.	TOTAL DISCH	SPILL	GAS FB	%SAT. TAILW.	TOTAL DISCH	SPILL	GAS OR FB	%SAT. WA FB TAILW.	GAS % SAT
	KCFS	KCFS			KCFS	KCFS			KCFS	KCFS			
1	13.50	0.00	?UNDEF	?UNDEF	12.50	0.00	096.26	097.89	59.50	0.00	099.23	101.03	098.62
2	14.10	0.00	?UNDEF	?UNDEF	11.40	0.00	096.07	097.69	59.70	0.00	099.21	100.70	098.85
3	15.10	0.00	?UNDEF	?UNDEF	11.40	0.00	095.75	097.64	59.80	0.00	098.77	100.64	098.69
4	14.10	0.00	?UNDEF	?UNDEF	12.90	0.00	095.69	097.48	61.20	0.00	098.31	100.73	098.74
5	15.70	0.00	?UNDEF	?UNDEF	12.90	0.00	095.52	097.44	85.50	0.00	098.24	100.52	098.82
6	14.50	0.00	?UNDEF	?UNDEF	11.40	0.00	095.36	097.41	64.30	0.00	098.64	100.00	098.55
7	14.10	0.00	?UNDEF	?UNDEF	11.30	0.00	095.02	097.53	60.20	0.00	100.13	099.93	098.06
8	13.60	0.00	?UNDEF	?UNDEF	13.30	0.00	094.80	098.12	59.70	0.00	099.79	099.71	098.12
9	13.70	0.00	?UNDEF	?UNDEF	13.40	0.00	094.90	098.11	59.60	0.00	099.74	100.07	098.35
10	13.70	0.00	?UNDEF	?UNDEF	13.40	0.00	095.18	099.19	59.40	0.00	100.36	099.95	098.37
11	12.80	0.00	?UNDEF	?UNDEF	12.30	0.00	095.06	098.22	59.40	0.00	100.80	099.82	098.76
12	13.40	0.00	?UNDEF	?UNDEF	13.50	0.00	094.95	099.43	59.50	0.00	101.21	100.36	099.15
13	12.10	0.00	?UNDEF	?UNDEF	12.10	0.00	096.32	099.50	59.20	0.00	100.96	100.24	099.22
14	11.90	0.00	?UNDEF	?UNDEF	12.00	0.00	096.54	101.02	59.10	0.00	101.08	100.61	099.42
15	12.20	0.00	?UNDEF	?UNDEF	11.90	0.00	097.03	099.80	58.70	0.00	101.59	100.94	099.53
16	13.40	0.00	?UNDEF	?UNDEF	11.90	0.00	097.46	099.96	58.60	0.00	101.72	101.52	099.45
17	13.40	0.00	?UNDEF	?UNDEF	12.10	0.00	097.48	099.81	58.80	0.00	100.48	101.99	099.62
18	11.90	0.00	?UNDEF	?UNDEF	13.50	0.00	097.78	099.30	58.80	0.00	099.83	101.59	099.90
19	11.90	0.00	?UNDEF	?UNDEF	12.00	0.00	097.48	099.02	59.10	0.00	099.42	101.34	099.91
20	12.10	0.00	?UNDEF	?UNDEF	11.90	0.00	097.46	098.74	60.10	0.00	099.29	101.34	099.63
21	12.00	0.00	?UNDEF	?UNDEF	11.90	0.00	097.36	098.48	69.10	0.00	099.39	101.47	099.49
22	12.10	0.00	?UNDEF	?UNDEF	12.10	0.00	097.20	098.70	69.80	0.00	100.20	101.34	099.34
23	12.10	0.00	?UNDEF	?UNDEF	11.70	0.00	097.19	098.83	66.90	0.00	098.52	100.75	098.99
24	12.00	0.00	?UNDEF	?UNDEF	12.60	0.00	097.08	098.15	64.50	0.00	098.94	100.48	098.74

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WALLA WALLA DISTRICT HYDRO PROJECTS
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DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.
1	1.50	0.00	103.91	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	088.90	093.86	12.50	0.00	?UNDEF	?UNDEF
2	1.50	0.00	103.70	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	088.90	093.69	13.80	0.00	?UNDEF	?UNDEF
3	1.50	0.00	103.99	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	090.95	093.75	12.60	0.00	?UNDEF	?UNDEF
4	1.50	0.00	104.12	?UNDEF	?UNDEF	?UNDEF	15.70	0.00	090.97	094.54	14.10	0.00	?UNDEF	?UNDEF
5	1.50	0.00	104.05	?UNDEF	?UNDEF	?UNDEF	13.90	0.00	090.92	094.65	16.10	0.00	?UNDEF	?UNDEF
6	1.60	0.00	104.16	?UNDEF	?UNDEF	?UNDEF	15.90	0.00	091.94	095.02	14.90	0.00	?UNDEF	?UNDEF
7	1.50	0.00	104.00	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	091.71	094.61	16.40	0.00	?UNDEF	?UNDEF
8	1.60	0.00	104.09	?UNDEF	?UNDEF	?UNDEF	16.30	0.00	091.63	094.11	16.30	0.00	?UNDEF	?UNDEF
9	1.60	0.00	104.34	?UNDEF	?UNDEF	?UNDEF	16.50	0.00	092.65	093.94	16.30	0.00	?UNDEF	?UNDEF
10	1.50	0.00	104.65	?UNDEF	?UNDEF	?UNDEF	17.00	0.00	093.72	093.71	16.30	0.00	?UNDEF	?UNDEF
11	1.50	0.00	104.90	?UNDEF	?UNDEF	?UNDEF	16.80	0.00	094.04	093.46	16.30	0.00	?UNDEF	?UNDEF
12	1.60	0.00	105.41	?UNDEF	?UNDEF	?UNDEF	16.80	0.00	093.94	093.40	16.50	0.00	?UNDEF	?UNDEF
13	1.60	0.00	105.94	?UNDEF	?UNDEF	?UNDEF	16.90	0.00	093.53	093.75	16.20	0.00	?UNDEF	?UNDEF
14	1.50	0.00	106.49	?UNDEF	?UNDEF	?UNDEF	16.90	0.00	093.85	093.73	16.20	0.00	?UNDEF	?UNDEF
15	1.60	0.00	106.68	?UNDEF	?UNDEF	?UNDEF	16.80	0.00	095.03	094.32	16.20	0.00	?UNDEF	?UNDEF
16	1.50	0.00	106.48	?UNDEF	?UNDEF	?UNDEF	14.10	0.00	095.44	094.64	14.60	0.00	?UNDEF	?UNDEF
17	1.60	0.00	106.28	?UNDEF	?UNDEF	?UNDEF	12.50	0.00	095.33	095.47	13.40	0.00	?UNDEF	?UNDEF
18	1.60	0.00	105.46	?UNDEF	?UNDEF	?UNDEF	12.40	0.00	095.12	095.91	12.40	0.00	?UNDEF	?UNDEF
19	1.50	0.00	106.28	?UNDEF	?UNDEF	?UNDEF	12.50	0.00	094.77	096.15	14.00	0.00	?UNDEF	?UNDEF
20	1.60	0.00	104.32	?UNDEF	?UNDEF	?UNDEF	14.20	0.00	094.91	095.97	12.50	0.00	?UNDEF	?UNDEF
21	1.50	0.00	104.11	?UNDEF	?UNDEF	?UNDEF	12.70	0.00	094.10	096.60	12.50	0.00	?UNDEF	?UNDEF
22	1.50	0.00	104.05	?UNDEF	?UNDEF	?UNDEF	12.80	0.00	093.80	095.79	12.60	0.00	?UNDEF	?UNDEF
23	1.60	0.00	104.18	?UNDEF	?UNDEF	?UNDEF	13.70	0.00	092.29	095.38	12.60	0.00	?UNDEF	?UNDEF
24	1.50	0.00	104.13	?UNDEF	?UNDEF	?UNDEF	13.70	0.00	092.14	095.09	14.10	0.00	?UNDEF	?UNDEF
LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT
1	13.00	0.00	?UNDEF	?UNDEF	9.70	0.00	096.88	098.65	61.10	0.00	100.20	101.36	098.33	099.99
2	15.70	0.00	?UNDEF	?UNDEF	11.40	0.00	097.36	098.20	60.40	0.00	100.41	101.19	098.41	099.76
3	12.90	0.00	?UNDEF	?UNDEF	13.00	0.00	097.13	099.03	60.60	0.00	100.58	101.17	098.53	099.66
4	12.80	0.00	?UNDEF	?UNDEF	13.20	0.00	096.83	099.15	60.40	0.00	100.61	101.06	098.69	099.47
5	13.80	0.00	?UNDEF	?UNDEF	13.00	0.00	096.40	098.71	61.40	0.00	101.22	100.52	098.51	099.22
6	13.90	0.00	?UNDEF	?UNDEF	13.10	0.00	096.08	098.66	87.40	0.00	098.82	100.61	098.74	099.03
7	13.80	0.00	?UNDEF	?UNDEF	14.50	0.00	096.07	098.52	88.20	0.00	097.16	100.41	098.83	099.02
8	15.30	0.00	?UNDEF	?UNDEF	13.10	0.00	095.88	097.95	84.90	0.00	097.49	099.80	098.77	098.80
9	15.40	0.00	?UNDEF	?UNDEF	13.30	0.00	095.55	097.66	80.60	0.00	097.98	099.76	098.82	098.73
10	16.10	0.00	?UNDEF	?UNDEF	19.30	0.00	095.56	098.26	81.70	0.00	098.77	100.30	098.98	098.98
11	16.50	0.00	?UNDEF	?UNDEF	18.20	0.00	095.53	098.60	79.20	0.00	100.54	100.30	099.02	099.29
12	17.80	0.00	?UNDEF	?UNDEF	18.10	0.00	095.35	098.57	79.10	0.00	101.27	100.53	099.24	099.70
13	24.00	0.00	?UNDEF	?UNDEF	18.20	0.00	095.29	099.40	79.20	0.00	101.59	100.77	099.48	100.11
14	16.30	0.00	?UNDEF	?UNDEF	18.20	0.00	095.39	099.17	79.70	0.00	101.84	102.44	099.67	100.33
15	16.20	0.00	?UNDEF	?UNDEF	18.50	0.00	095.62	098.92	78.30	0.00	100.46	102.35	099.74	100.53
16	16.00	0.00	?UNDEF	?UNDEF	18.20	0.00	095.99	098.95	68.00	0.00	100.46	103.48	099.67	100.64
17	13.30	0.00	?UNDEF	?UNDEF	18.20	0.00	096.11	098.84	69.30	0.00	100.04	103.80	099.82	100.94
18	13.00	0.00	?UNDEF	?UNDEF	19.50	0.00	095.98	098.75	69.00	0.00	100.04	103.13	099.74	100.94
19	12.80	0.00	?UNDEF	?UNDEF	12.70	0.00	096.23	098.47	69.40	0.00	099.51	102.75	099.62	101.23
20	12.80	0.00	?UNDEF	?UNDEF	12.80	0.00	095.98	098.15	69.10	0.00	102.65	102.40	099.03	101.56
21	12.80	0.00	?UNDEF	?UNDEF	12.50	0.00	096.06	097.88	70.90	0.00	102.11	102.15	098.88	101.54
22	13.00	0.00	?UNDEF	?UNDEF	12.60	0.00	096.05	097.69	70.50	0.00	101.76	101.74	098.73	101.50
23	14.90	0.00	?UNDEF	?UNDEF	12.70	0.00	096.18	098.63	65.20	0.00	100.54	101.33	098.56	100.70
24	13.90	0.00	?UNDEF	?UNDEF	12.80	0.00	096.26	098.05	63.30	0.00	100.04	101.17	098.50	100.70

02 OCT 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

02 OCT 2001

DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.
1	1.50	0.00	104.57	?UNDEF	?UNDEF	?UNDEF	12.70	0.00	093.12	095.05	12.80	0.00	?UNDEF	?UNDEF
2	1.50	0.00	104.34	?UNDEF	?UNDEF	?UNDEF	12.70	0.00	092.94	094.98	12.50	0.00	?UNDEF	?UNDEF
3	1.50	0.00	104.23	?UNDEF	?UNDEF	?UNDEF	12.80	0.00	092.66	094.84	14.10	0.00	?UNDEF	?UNDEF
4	1.50	0.00	104.32	?UNDEF	?UNDEF	?UNDEF	14.60	0.00	092.83	094.84	14.10	0.00	?UNDEF	?UNDEF
5	1.50	0.00	104.39	?UNDEF	?UNDEF	?UNDEF	13.60	0.00	092.49	096.39	12.60	0.00	?UNDEF	?UNDEF
6	1.60	0.00	104.51	?UNDEF	?UNDEF	?UNDEF	13.80	0.00	092.03	095.53	14.40	0.00	?UNDEF	?UNDEF
7	1.50	0.00	104.50	?UNDEF	?UNDEF	?UNDEF	14.10	0.00	092.28	094.54	12.60	0.00	?UNDEF	?UNDEF
8	1.60	0.00	104.53	?UNDEF	?UNDEF	?UNDEF	15.50	0.00	091.82	094.23	12.60	0.00	?UNDEF	?UNDEF
9	1.50	0.00	104.68	?UNDEF	?UNDEF	?UNDEF	13.80	0.00	091.35	095.75	12.50	0.00	?UNDEF	?UNDEF
10	1.60	0.00	104.96	?UNDEF	?UNDEF	?UNDEF	13.80	0.00	092.03	095.21	12.60	0.00	?UNDEF	?UNDEF
11	1.50	0.00	105.14	?UNDEF	?UNDEF	?UNDEF	15.10	0.00	092.57	094.84	12.80	0.00	?UNDEF	?UNDEF
12	1.60	0.00	105.60	?UNDEF	?UNDEF	?UNDEF	16.40	0.00	091.79	094.62	12.60	0.00	?UNDEF	?UNDEF
13	1.50	0.00	106.47	?UNDEF	?UNDEF	?UNDEF	16.00	0.00	092.40	094.68	14.10	0.00	?UNDEF	?UNDEF
14	1.60	0.00	106.69	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	091.19	096.16	12.60	0.00	?UNDEF	?UNDEF
15	1.50	0.00	106.96	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	091.08	095.38	12.60	0.00	?UNDEF	?UNDEF
16	1.50	0.00	106.99	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	090.36	094.92	12.80	0.00	?UNDEF	?UNDEF
17	1.50	0.00	106.63	?UNDEF	?UNDEF	?UNDEF	15.70	0.00	092.90	094.52	12.60	0.00	?UNDEF	?UNDEF
18	1.50	0.00	105.98	?UNDEF	?UNDEF	?UNDEF	14.20	0.00	092.67	094.93	12.50	0.00	?UNDEF	?UNDEF
19	1.50	0.00	106.63	?UNDEF	?UNDEF	?UNDEF	15.50	0.00	093.44	094.55	12.40	0.00	?UNDEF	?UNDEF
20	1.60	0.00	104.70	?UNDEF	?UNDEF	?UNDEF	13.80	0.00	092.99	095.00	12.30	0.00	?UNDEF	?UNDEF
21	1.50	0.00	104.40	?UNDEF	?UNDEF	?UNDEF	13.90	0.00	091.63	094.55	14.20	0.00	?UNDEF	?UNDEF
22	1.50	0.00	104.23	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	090.53	094.13	12.60	0.00	?UNDEF	?UNDEF
23	1.50	0.00	104.18	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	089.41	094.11	14.10	0.00	?UNDEF	?UNDEF
24	1.60	0.00	104.10	?UNDEF	?UNDEF	?UNDEF	14.20	0.00	089.51	093.93	12.40	0.00	?UNDEF	?UNDEF
LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT
1	13.80	0.00	?UNDEF	?UNDEF	9.40	0.00	095.73	098.06	95.30	0.00	100.24	098.92	098.21	100.54
2	12.20	0.00	?UNDEF	?UNDEF	9.20	0.00	095.86	098.92	70.60	0.00	101.21	099.36	098.03	100.32
3	13.90	0.00	?UNDEF	?UNDEF	9.20	0.00	095.73	098.60	69.60	0.00	100.95	100.39	098.29	100.13
4	12.20	0.00	?UNDEF	?UNDEF	9.20	0.00	095.58	099.11	79.80	0.00	098.70	100.09	098.12	099.97
5	12.20	0.00	?UNDEF	?UNDEF	9.30	0.00	095.35	097.94	84.60	0.00	098.08	099.60	098.18	099.79
6	12.30	0.00	?UNDEF	?UNDEF	14.20	0.00	095.99	097.66	90.70	0.00	097.92	099.20	098.16	099.48
7	21.90	0.00	?UNDEF	?UNDEF	15.00	0.00	095.81	097.93	93.50	0.00	097.34	098.61	098.23	099.47
8	13.70	0.00	?UNDEF	?UNDEF	18.10	0.00	096.04	098.42	95.40	0.00	097.53	098.54	098.55	099.25
9	12.50	0.00	?UNDEF	?UNDEF	18.10	0.00	096.14	098.54	99.60	0.00	097.48	099.14	098.65	099.36
10	12.30	0.00	?UNDEF	?UNDEF	18.10	0.00	096.22	099.72	97.70	0.00	097.46	098.85	098.00	099.44
11	12.30	0.00	?UNDEF	?UNDEF	18.10	0.00	096.91	098.63	96.90	0.00	098.32	098.48	098.91	099.72
12	12.30	0.00	?UNDEF	?UNDEF	19.90	0.00	096.67	098.55	100.50	0.00	100.29	099.31	099.36	100.17
13	12.30	0.00	?UNDEF	?UNDEF	12.80	0.00	096.32	098.57	102.90	0.00	102.60	099.50	099.41	100.49
14	12.30	0.00	?UNDEF	?UNDEF	11.20	0.00	096.07	098.93	102.80	0.00	103.86	099.64	099.55	100.89
15	12.30	0.00	?UNDEF	?UNDEF	11.20	0.00	095.85	098.79	103.00	0.00	104.41	100.52	099.37	101.18
16	12.50	0.00	?UNDEF	?UNDEF	10.20	0.00	095.65	098.79	102.80	0.00	102.20	102.81	099.54	101.42
17	12.30	0.00	?UNDEF	?UNDEF	10.30	0.00	095.90	099.48	102.70	0.00	101.47	104.43	099.71	101.54
18	12.30	0.00	?UNDEF	?UNDEF	10.00	0.00	096.39	099.92	101.90	0.00	099.89	103.68	099.84	101.34
19	12.50	0.00	?UNDEF	?UNDEF	11.50	0.00	096.35	099.38	103.10	0.00	098.86	103.13	099.88	101.22
20	12.90	0.00	?UNDEF	?UNDEF	10.00	0.00	096.22	098.98	124.90	0.00	098.40	102.56	099.84	101.06
21	12.90	0.00	?UNDEF	?UNDEF	10.00	0.00	095.94	098.94	125.30	0.00	098.13	101.78	099.55	100.92
22	13.10	0.00	?UNDEF	?UNDEF	11.60	0.00	095.65	098.92	123.90	0.00	098.08	101.74	099.38	100.74
23	13.00	0.00	?UNDEF	?UNDEF	9.90	0.00	095.88	098.73	105.20	0.00	097.88	101.43	099.03	100.41
24	14.50	0.00	?UNDEF	?UNDEF	11.20	0.00	096.62	099.51	70.30	0.00	101.02	101.70	098.62	100.41

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WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

01 OCT 2001

	DWRSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	
1	1.50	0.00	104.39	?UNDEF	?UNDEF	?UNDEF	12.60	0.00	098.71	096.31	14.10	0.00	?UNDEF	?UNDEF	
2	1.60	0.00	104.21	?UNDEF	?UNDEF	?UNDEF	13.20	0.00	098.43	096.31	13.00	0.00	?UNDEF	?UNDEF	
3	1.50	0.00	104.35	?UNDEF	?UNDEF	?UNDEF	12.80	0.00	098.49	096.19	12.80	0.00	?UNDEF	?UNDEF	
4	1.60	0.00	104.47	?UNDEF	?UNDEF	?UNDEF	12.90	0.00	097.94	096.15	12.90	0.00	?UNDEF	?UNDEF	
5	1.50	0.00	104.48	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	096.99	095.77	12.90	0.00	?UNDEF	?UNDEF	
6	1.50	0.00	104.37	?UNDEF	?UNDEF	?UNDEF	13.80	0.00	096.45	095.61	14.80	0.00	?UNDEF	?UNDEF	
7	1.50	0.00	104.18	?UNDEF	?UNDEF	?UNDEF	13.80	0.00	096.40	095.58	14.50	0.00	?UNDEF	?UNDEF	
8	1.60	0.00	104.45	?UNDEF	?UNDEF	?UNDEF	13.90	0.00	096.25	095.74	12.50	0.00	?UNDEF	?UNDEF	
9	1.50	0.00	104.90	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	096.25	095.87	12.80	0.00	?UNDEF	?UNDEF	
10	1.60	0.00	104.96	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	096.42	096.13	12.50	0.00	?UNDEF	?UNDEF	
11	1.50	0.00	105.09	?UNDEF	?UNDEF	?UNDEF	14.30	0.00	096.76	096.45	14.00	0.00	?UNDEF	?UNDEF	
12	1.60	0.00	105.61	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	096.89	096.75	12.50	0.00	?UNDEF	?UNDEF	
13	1.50	0.00	106.31	?UNDEF	?UNDEF	?UNDEF	17.40	0.00	096.98	096.83	12.60	0.00	?UNDEF	?UNDEF	
14	1.60	0.00	106.68	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	095.33	097.88	12.60	0.00	?UNDEF	?UNDEF	
15	1.50	0.00	106.91	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	096.01	097.36	14.30	0.00	?UNDEF	?UNDEF	
16	1.60	0.00	106.91	?UNDEF	?UNDEF	?UNDEF	15.70	0.00	097.99	097.01	12.60	0.00	?UNDEF	?UNDEF	
17	1.50	0.00	106.58	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	097.72	097.00	12.60	0.00	?UNDEF	?UNDEF	
18	1.60	0.00	105.83	?UNDEF	?UNDEF	?UNDEF	14.30	0.00	097.48	096.38	12.60	0.00	?UNDEF	?UNDEF	
19	1.50	0.00	106.58	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	097.30	095.83	12.50	0.00	?UNDEF	?UNDEF	
20	1.50	0.00	104.48	?UNDEF	?UNDEF	?UNDEF	15.70	0.00	096.05	095.62	12.70	0.00	?UNDEF	?UNDEF	
21	1.50	0.00	104.16	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	095.06	095.30	12.50	0.00	?UNDEF	?UNDEF	
22	1.50	0.00	104.19	?UNDEF	?UNDEF	?UNDEF	14.10	0.00	095.42	095.38	14.10	0.00	?UNDEF	?UNDEF	
23	1.50	0.00	104.41	?UNDEF	?UNDEF	?UNDEF	13.50	0.00	093.78	095.14	14.00	0.00	?UNDEF	?UNDEF	
24	1.60	0.00	104.51	?UNDEF	?UNDEF	?UNDEF	12.80	0.00	093.21	095.07	12.60	0.00	?UNDEF	?UNDEF	
	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT	
1	13.50	0.00	?UNDEF	?UNDEF	9.40	0.00	095.24	098.52	51.50	0.00	100.15	098.78	097.63	101.25	
2	14.30	0.00	?UNDEF	?UNDEF	9.30	0.00	095.75	098.52	58.50	0.00	100.30	097.97	097.58	101.11	
3	14.20	0.00	?UNDEF	?UNDEF	9.30	0.00	096.18	098.31	56.20	0.00	100.29	098.25	097.60	100.85	
4	17.20	0.00	?UNDEF	?UNDEF	9.50	0.00	096.14	098.33	60.90	0.00	099.88	098.50	097.62	100.42	
5	13.70	0.00	?UNDEF	?UNDEF	16.90	0.00	096.14	098.50	80.30	0.00	099.52	098.26	098.12	100.17	
6	17.00	0.00	?UNDEF	?UNDEF	18.00	0.00	096.16	098.62	94.80	0.00	099.76	098.35	098.12	099.92	
7	14.20	0.00	?UNDEF	?UNDEF	18.00	0.00	095.82	098.87	96.30	0.00	098.54	097.94	097.99	099.60	
8	13.70	0.00	?UNDEF	?UNDEF	14.30	0.00	095.55	098.98	88.90	0.00	097.75	097.93	097.95	099.46	
9	15.30	0.00	?UNDEF	?UNDEF	12.70	0.00	095.68	098.48	88.70	0.00	097.44	098.18	098.08	099.46	
10	14.10	0.00	?UNDEF	?UNDEF	12.70	0.00	095.71	099.47	88.40	0.00	097.33	097.93	098.32	099.73	
11	13.90	0.00	?UNDEF	?UNDEF	12.50	0.00	096.02	099.08	88.30	0.00	100.72	097.92	098.63	100.12	
12	13.90	0.00	?UNDEF	?UNDEF	12.70	0.00	096.31	099.00	88.20	0.00	100.80	098.34	098.90	100.66	
13	13.20	0.00	?UNDEF	?UNDEF	12.90	0.00	096.32	100.28	88.10	0.00	100.98	098.44	098.97	101.12	
14	13.90	0.00	?UNDEF	?UNDEF	11.90	0.00	096.26	099.76	87.90	0.00	101.10	098.62	099.03	101.62	
15	13.70	0.00	?UNDEF	?UNDEF	12.30	0.00	096.59	100.21	88.20	0.00	101.26	098.57	099.04	102.12	
16	12.60	0.00	?UNDEF	?UNDEF	12.20	0.00	096.34	099.88	90.30	0.00	101.60	098.91	099.09	102.42	
17	12.20	0.00	?UNDEF	?UNDEF	13.80	0.00	096.10	100.21	107.10	0.00	101.92	098.84	099.13	102.51	
18	12.20	0.00	?UNDEF	?UNDEF	14.10	0.00	096.14	100.36	107.20	0.00	102.36	099.11	099.12	102.63	
19	12.30	0.00	?UNDEF	?UNDEF	12.90	0.00	096.11	099.75	108.00	0.00	100.12	098.68	098.85	102.30	
20	12.30	0.00	?UNDEF	?UNDEF	12.70	0.00	095.96	099.36	108.70	0.00	098.59	098.39	098.81	101.96	
21	14.00	0.00	?UNDEF	?UNDEF	14.20	0.00	095.75	099.04	107.80	0.00	098.38	100.83	098.92	101.78	
22	12.20	0.00	?UNDEF	?UNDEF	14.20	0.00	095.70	099.61	105.20	0.00	098.03	101.05	098.70	101.45	
23	12.20	0.00	?UNDEF	?UNDEF	12.70	0.00	095.68	098.68	82.20	0.00	097.98	099.83	098.51	101.16	
24	12.30	0.00	?UNDEF	?UNDEF	12.60	0.00	095.65	098.24	76.70	0.00	097.64	099.34	098.28	101.16	

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	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.
1	1.50	0.00	104.35	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	094.42	094.98	24.30	0.00	?UNDEF	?UNDEF
2	1.50	0.00	104.47	?UNDEF	?UNDEF	?UNDEF	13.90	0.00	096.33	094.98	12.40	0.00	?UNDEF	?UNDEF
3	1.50	0.00	104.58	?UNDEF	?UNDEF	?UNDEF	13.90	0.00	096.07	094.83	12.80	0.00	?UNDEF	?UNDEF
4	1.50	0.00	104.44	?UNDEF	?UNDEF	?UNDEF	14.20	0.00	095.51	094.56	12.60	0.00	?UNDEF	?UNDEF
5	1.50	0.00	104.40	?UNDEF	?UNDEF	?UNDEF	13.90	0.00	096.04	094.53	12.60	0.00	?UNDEF	?UNDEF
6	1.50	0.00	104.33	?UNDEF	?UNDEF	?UNDEF	13.90	0.00	096.43	094.37	12.60	0.00	?UNDEF	?UNDEF
7	1.50	0.00	104.32	?UNDEF	?UNDEF	?UNDEF	13.90	0.00	096.04	094.39	12.70	0.00	?UNDEF	?UNDEF
8	1.50	0.00	104.45	?UNDEF	?UNDEF	?UNDEF	13.90	0.00	096.01	094.65	14.20	0.00	?UNDEF	?UNDEF
9	1.60	0.00	104.59	?UNDEF	?UNDEF	?UNDEF	14.20	0.00	096.16	095.05	12.60	0.00	?UNDEF	?UNDEF
10	1.50	0.00	104.83	?UNDEF	?UNDEF	?UNDEF	13.90	0.00	096.17	095.48	12.50	0.00	?UNDEF	?UNDEF
11	1.60	0.00	105.19	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	096.51	095.56	12.50	0.00	?UNDEF	?UNDEF
12	1.60	0.00	105.86	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	096.72	095.50	14.00	0.00	?UNDEF	?UNDEF
13	1.50	0.00	106.43	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	096.94	095.99	12.80	0.00	?UNDEF	?UNDEF
14	1.50	0.00	106.88	?UNDEF	?UNDEF	?UNDEF	14.20	0.00	098.27	096.63	12.50	0.00	?UNDEF	?UNDEF
15	1.60	0.00	107.13	?UNDEF	?UNDEF	?UNDEF	15.70	0.00	098.32	096.84	14.00	0.00	?UNDEF	?UNDEF
16	1.60	0.00	107.16	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	098.24	097.59	12.60	0.00	?UNDEF	?UNDEF
17	1.50	0.00	106.78	?UNDEF	?UNDEF	?UNDEF	15.70	0.00	099.65	096.94	12.50	0.00	?UNDEF	?UNDEF
18	1.60	0.00	106.13	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	099.43	096.99	12.70	0.00	?UNDEF	?UNDEF
19	1.50	0.00	106.78	?UNDEF	?UNDEF	?UNDEF	14.20	0.00	099.65	096.75	15.50	0.00	?UNDEF	?UNDEF
20	1.50	0.00	104.68	?UNDEF	?UNDEF	?UNDEF	15.70	0.00	099.76	096.53	14.00	0.00	?UNDEF	?UNDEF
21	1.60	0.00	104.34	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	100.30	097.09	12.60	0.00	?UNDEF	?UNDEF
22	1.60	0.00	104.34	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	100.09	096.70	12.60	0.00	?UNDEF	?UNDEF
23	1.50	0.00	104.45	?UNDEF	?UNDEF	?UNDEF	15.70	0.00	099.52	096.29	12.50	0.00	?UNDEF	?UNDEF
24	1.60	0.00	104.39	?UNDEF	?UNDEF	?UNDEF	13.30	0.00	098.88	096.55	12.80	0.00	?UNDEF	?UNDEF
	LOWER MONUMENTAL			ICE HARBOR			MCNARY			PASCO				
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT
1	13.70	0.00	?UNDEF	?UNDEF	9.60	0.00	097.18	098.14	59.60	0.00	097.60	099.39	098.38	099.41
2	15.20	0.00	?UNDEF	?UNDEF	12.10	0.00	097.10	098.08	59.60	0.00	097.61	098.60	098.05	099.25
3	13.60	0.00	?UNDEF	?UNDEF	13.50	0.00	097.12	098.10	59.80	0.00	098.60	098.56	097.78	099.25
4	14.00	0.00	?UNDEF	?UNDEF	12.60	0.00	096.98	098.08	59.60	0.00	099.55	098.41	098.17	099.12
5	13.60	0.00	?UNDEF	?UNDEF	13.30	0.00	096.97	098.07	59.60	0.00	099.02	098.78	098.12	098.96
6	13.80	0.00	?UNDEF	?UNDEF	9.70	0.00	096.54	098.19	59.00	0.00	098.71	098.48	097.88	098.81
7	13.60	0.00	?UNDEF	?UNDEF	13.40	0.00	096.41	098.33	59.00	0.00	097.27	098.22	097.58	098.67
8	13.70	0.00	?UNDEF	?UNDEF	12.20	0.00	095.95	099.10	64.80	0.00	097.48	098.17	097.55	098.60
9	13.70	0.00	?UNDEF	?UNDEF	13.50	0.00	096.10	099.01	69.30	0.00	098.39	098.59	097.84	098.59
10	13.90	0.00	?UNDEF	?UNDEF	13.50	0.00	095.83	099.55	69.10	0.00	099.20	098.35	098.11	098.88
11	13.60	0.00	?UNDEF	?UNDEF	13.60	0.00	095.74	099.18	69.00	0.00	100.14	099.04	098.67	099.35
12	13.60	0.00	?UNDEF	?UNDEF	12.00	0.00	095.56	100.30	69.10	0.00	100.29	100.20	098.90	099.80
13	13.60	0.00	?UNDEF	?UNDEF	12.30	0.00	095.91	100.28	73.40	0.00	100.87	099.07	099.24	100.28
14	15.10	0.00	?UNDEF	?UNDEF	12.00	0.00	095.99	101.41	73.90	0.00	101.39	099.34	099.37	100.79
15	15.00	0.00	?UNDEF	?UNDEF	13.50	0.00	096.13	101.04	87.90	0.00	100.81	100.76	099.48	101.15
16	15.00	0.00	?UNDEF	?UNDEF	12.10	0.00	095.90	101.17	88.40	0.00	099.83	101.87	099.54	101.15
17	15.20	0.00	?UNDEF	?UNDEF	12.00	0.00	095.75	100.48	88.20	0.00	099.07	102.07	099.45	101.49
18	13.40	0.00	?UNDEF	?UNDEF	12.00	0.00	095.64	100.12	88.10	0.00	098.36	101.61	099.24	101.65
19	13.50	0.00	?UNDEF	?UNDEF	12.20	0.00	095.51	100.00	88.80	0.00	098.24	100.81	098.87	101.66
20	13.50	0.00	?UNDEF	?UNDEF	11.90	0.00	095.35	100.24	88.60	0.00	097.96	100.41	098.72	101.81
21	13.40	0.00	?UNDEF	?UNDEF	11.90	0.00	095.39	099.45	88.20	0.00	097.93	099.71	098.59	101.82
22	13.50	0.00	?UNDEF	?UNDEF	12.00	0.00	095.52	098.94	88.10	0.00	097.95	099.22	098.32	101.69
23	13.50	0.00	?UNDEF	?UNDEF	11.80	0.00	095.55	098.67	87.60	0.00	097.93	098.87	098.03	101.53
24	13.70	0.00	?UNDEF	?UNDEF	9.60	0.00	095.39	098.55	60.80	0.00	100.41	098.42	097.90	101.53

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	DWRSHAK			STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.
1	1.50	0.00	104.32	?UNDEF	?UNDEF	?UNDEF	14.10	0.00	093.39	095.42	12.40	0.00	?UNDEF	?UNDEF
2	1.50	0.00	104.25	?UNDEF	?UNDEF	?UNDEF	14.10	0.00	094.01	095.09	12.60	0.00	?UNDEF	?UNDEF
3	1.50	0.00	104.36	?UNDEF	?UNDEF	?UNDEF	14.10	0.00	093.89	094.95	12.40	0.00	?UNDEF	?UNDEF
4	1.50	0.00	104.44	?UNDEF	?UNDEF	?UNDEF	14.40	0.00	094.91	094.77	12.40	0.00	?UNDEF	?UNDEF
5	1.50	0.00	104.49	?UNDEF	?UNDEF	?UNDEF	14.10	0.00	095.14	094.69	12.50	0.00	?UNDEF	?UNDEF
6	1.50	0.00	104.44	?UNDEF	?UNDEF	?UNDEF	14.10	0.00	094.92	094.63	12.50	0.00	?UNDEF	?UNDEF
7	1.50	0.00	104.35	?UNDEF	?UNDEF	?UNDEF	13.70	0.00	094.88	094.63	14.30	0.00	?UNDEF	?UNDEF
8	1.50	0.00	104.49	?UNDEF	?UNDEF	?UNDEF	15.40	0.00	094.99	094.71	14.20	0.00	?UNDEF	?UNDEF
9	1.60	0.00	105.12	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	095.22	095.34	12.60	0.00	?UNDEF	?UNDEF
10	1.50	0.00	105.12	?UNDEF	?UNDEF	?UNDEF	13.80	0.00	095.23	095.62	12.70	0.00	?UNDEF	?UNDEF
11	1.60	0.00	105.06	?UNDEF	?UNDEF	?UNDEF	13.80	0.00	095.51	095.79	12.70	0.00	?UNDEF	?UNDEF
12	1.50	0.00	105.43	?UNDEF	?UNDEF	?UNDEF	13.80	0.00	095.68	096.06	12.70	0.00	?UNDEF	?UNDEF
13	1.50	0.00	106.33	?UNDEF	?UNDEF	?UNDEF	13.80	0.00	095.59	095.85	14.10	0.00	?UNDEF	?UNDEF
14	1.50	0.00	106.97	?UNDEF	?UNDEF	?UNDEF	15.80	0.00	095.52	096.17	12.60	0.00	?UNDEF	?UNDEF
15	1.50	0.00	107.30	?UNDEF	?UNDEF	?UNDEF	13.90	0.00	095.31	096.46	15.60	0.00	?UNDEF	?UNDEF
16	1.50	0.00	107.22	?UNDEF	?UNDEF	?UNDEF	13.90	0.00	096.77	096.37	12.60	0.00	?UNDEF	?UNDEF
17	1.50	0.00	107.02	?UNDEF	?UNDEF	?UNDEF	13.80	0.00	097.62	095.97	12.80	0.00	?UNDEF	?UNDEF
18	1.50	0.00	106.32	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	096.83	095.63	12.70	0.00	?UNDEF	?UNDEF
19	1.60	0.00	107.02	?UNDEF	?UNDEF	?UNDEF	13.80	0.00	096.16	095.35	14.20	0.00	?UNDEF	?UNDEF
20	1.50	0.00	105.01	?UNDEF	?UNDEF	?UNDEF	15.60	0.00	096.25	095.34	12.60	0.00	?UNDEF	?UNDEF
21	1.50	0.00	104.71	?UNDEF	?UNDEF	?UNDEF	13.90	0.00	095.17	095.03	12.60	0.00	?UNDEF	?UNDEF
22	1.50	0.00	104.52	?UNDEF	?UNDEF	?UNDEF	13.90	0.00	094.24	095.13	12.80	0.00	?UNDEF	?UNDEF
23	1.60	0.00	104.58	?UNDEF	?UNDEF	?UNDEF	14.20	0.00	093.40	095.14	13.90	0.00	?UNDEF	?UNDEF
24	1.50	0.00	104.39	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	093.93	094.97	12.40	0.00	?UNDEF	?UNDEF
	LOWER MONUMENTAL			ICE HARBOR			MCNARY				PASCO			
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT
1	13.40	0.00	?UNDEF	?UNDEF	9.40	0.00	096.67	099.10	75.10	0.00	098.84	099.17	098.52	099.87
2	11.90	0.00	?UNDEF	?UNDEF	9.20	0.00	096.64	098.66	75.10	0.00	099.04	099.54	098.46	099.70
3	13.60	0.00	?UNDEF	?UNDEF	9.30	0.00	096.63	098.35	74.10	0.00	099.31	099.35	098.70	099.41
4	12.20	0.00	?UNDEF	?UNDEF	9.40	0.00	096.58	099.13	74.10	0.00	098.69	099.03	098.38	099.09
5	12.20	0.00	?UNDEF	?UNDEF	10.90	0.00	096.51	098.82	74.20	0.00	098.42	099.13	098.23	098.77
6	12.40	0.00	?UNDEF	?UNDEF	9.60	0.00	096.33	098.51	74.20	0.00	098.34	098.96	098.16	098.59
7	12.70	0.00	?UNDEF	?UNDEF	9.30	0.00	096.12	098.57	73.80	0.00	098.29	098.98	097.96	098.39
8	13.00	0.00	?UNDEF	?UNDEF	12.50	0.00	095.78	098.82	74.60	0.00	097.87	099.06	098.30	098.31
9	13.50	0.00	?UNDEF	?UNDEF	12.80	0.00	095.79	098.96	74.60	0.00	097.73	098.92	098.42	098.46
10	15.00	0.00	?UNDEF	?UNDEF	12.90	0.00	095.72	100.28	74.60	0.00	097.70	099.49	098.92	098.51
11	15.10	0.00	?UNDEF	?UNDEF	12.80	0.00	095.89	099.74	74.20	0.00	098.79	099.62	099.45	098.78
12	13.50	0.00	?UNDEF	?UNDEF	14.40	0.00	096.31	099.62	73.50	0.00	099.63	099.37	099.65	099.25
13	15.00	0.00	?UNDEF	?UNDEF	12.90	0.00	096.36	100.44	73.80	0.00	099.37	099.29	099.45	099.53
14	13.50	0.00	?UNDEF	?UNDEF	12.80	0.00	096.29	100.69	74.00	0.00	100.08	099.37	099.63	099.99
15	15.20	0.00	?UNDEF	?UNDEF	15.80	0.00	096.49	100.17	73.60	0.00	100.29	099.54	099.83	100.46
16	13.40	0.00	?UNDEF	?UNDEF	12.80	0.00	096.66	100.29	74.20	0.00	100.48	099.60	099.76	100.79
17	14.90	0.00	?UNDEF	?UNDEF	14.50	0.00	096.86	100.65	87.10	0.00	100.37	101.77	099.69	100.55
18	13.40	0.00	?UNDEF	?UNDEF	14.40	0.00	096.84	099.99	87.70	0.00	100.24	101.63	099.27	100.58
19	13.50	0.00	?UNDEF	?UNDEF	12.90	0.00	096.60	100.21	87.90	0.00	099.47	100.98	099.03	100.61
20	13.50	0.00	?UNDEF	?UNDEF	12.80	0.00	096.74	099.71	88.60	0.00	098.93	100.94	099.03	100.48
21	13.70	0.00	?UNDEF	?UNDEF	15.80	0.00	096.58	099.55	88.20	0.00	098.49	100.41	098.77	100.32
22	13.50	0.00	?UNDEF	?UNDEF	12.80	0.00	097.06	099.67	69.50	0.00	097.93	099.74	098.46	100.00
23	15.20	0.00	?UNDEF	?UNDEF	14.50	0.00	097.32	098.84	60.30	0.00	097.63	099.56	098.78	099.85
24	13.80	0.00	?UNDEF	?UNDEF	12.90	0.00	097.31	098.29	59.50	0.00	097.37	099.54	098.61	099.85

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	DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	
1	1.50	0.00	104.86	?UNDEF	?UNDEF	?UNDEF	14.20	0.00	093.58	095.06	13.50	0.00	?UNDEF	?UNDEF	
2	1.50	0.00	104.92	?UNDEF	?UNDEF	?UNDEF	14.50	0.00	093.15	094.75	13.50	0.00	?UNDEF	?UNDEF	
3	1.50	0.00	104.86	?UNDEF	?UNDEF	?UNDEF	14.20	0.00	093.05	094.74	13.40	0.00	?UNDEF	?UNDEF	
4	1.50	0.00	104.96	?UNDEF	?UNDEF	?UNDEF	15.90	0.00	093.37	094.57	13.30	0.00	?UNDEF	?UNDEF	
5	1.50	0.00	104.91	?UNDEF	?UNDEF	?UNDEF	14.20	0.00	092.06	095.10	13.90	0.00	?UNDEF	?UNDEF	
6	1.50	0.00	105.06	?UNDEF	?UNDEF	?UNDEF	14.40	0.00	091.72	094.96	15.10	0.00	?UNDEF	?UNDEF	
7	1.50	0.00	105.04	?UNDEF	?UNDEF	?UNDEF	18.00	0.00	092.12	095.05	20.40	0.00	?UNDEF	?UNDEF	
8	1.50	0.00	104.98	?UNDEF	?UNDEF	?UNDEF	17.90	0.00	091.94	095.01	19.20	0.00	?UNDEF	?UNDEF	
9	1.50	0.00	105.38	?UNDEF	?UNDEF	?UNDEF	16.20	0.00	092.60	095.11	18.80	0.00	?UNDEF	?UNDEF	
10	1.50	0.00	105.57	?UNDEF	?UNDEF	?UNDEF	16.10	0.00	092.94	095.07	18.20	0.00	?UNDEF	?UNDEF	
11	1.50	0.00	105.80	?UNDEF	?UNDEF	?UNDEF	16.10	0.00	091.86	095.23	18.40	0.00	?UNDEF	?UNDEF	
12	1.60	0.00	105.78	?UNDEF	?UNDEF	?UNDEF	16.00	0.00	090.98	095.63	20.20	0.00	?UNDEF	?UNDEF	
13	1.50	0.00	105.78	?UNDEF	?UNDEF	?UNDEF	15.80	0.00	091.10	095.63	18.70	0.00	?UNDEF	?UNDEF	
14	1.60	0.00	106.04	?UNDEF	?UNDEF	?UNDEF	14.90	0.00	091.53	095.68	17.10	0.00	?UNDEF	?UNDEF	
15	1.50	0.00	106.35	?UNDEF	?UNDEF	?UNDEF	14.10	0.00	091.68	095.68	16.40	0.00	?UNDEF	?UNDEF	
16	1.50	0.00	106.20	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	091.13	095.97	16.10	0.00	?UNDEF	?UNDEF	
17	1.50	0.00	106.05	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	091.28	095.70	16.90	0.00	?UNDEF	?UNDEF	
18	1.50	0.00	105.74	?UNDEF	?UNDEF	?UNDEF	14.30	0.00	091.65	095.40	17.80	0.00	?UNDEF	?UNDEF	
19	1.50	0.00	106.05	?UNDEF	?UNDEF	?UNDEF	15.70	0.00	092.14	095.33	15.00	0.00	?UNDEF	?UNDEF	
20	1.50	0.00	104.95	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	092.24	095.42	12.40	0.00	?UNDEF	?UNDEF	
21	1.50	0.00	104.64	?UNDEF	?UNDEF	?UNDEF	15.70	0.00	093.51	095.28	12.70	0.00	?UNDEF	?UNDEF	
22	1.50	0.00	104.45	?UNDEF	?UNDEF	?UNDEF	14.10	0.00	094.45	095.49	12.50	0.00	?UNDEF	?UNDEF	
23	1.60	0.00	104.43	?UNDEF	?UNDEF	?UNDEF	16.00	0.00	095.21	095.16	12.40	0.00	?UNDEF	?UNDEF	
24	1.50	0.00	104.35	?UNDEF	?UNDEF	?UNDEF	14.10	0.00	094.01	095.72	13.90	0.00	?UNDEF	?UNDEF	
	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT	
1	13.60	0.00	?UNDEF	?UNDEF	13.00	0.00	097.32	099.27	60.80	0.00	100.41	100.77	099.46	099.91	
2	13.60	0.00	?UNDEF	?UNDEF	12.60	0.00	097.17	099.27	60.70	0.00	099.43	101.35	099.50	099.75	
3	13.60	0.00	?UNDEF	?UNDEF	10.80	0.00	097.12	099.07	60.60	0.00	099.40	101.47	099.20	099.42	
4	13.80	0.00	?UNDEF	?UNDEF	10.50	0.00	096.99	099.08	60.60	0.00	099.22	101.15	099.44	099.26	
5	13.50	0.00	?UNDEF	?UNDEF	10.50	0.00	096.86	098.92	60.60	0.00	099.10	100.88	099.71	099.15	
6	13.60	0.00	?UNDEF	?UNDEF	11.70	0.00	096.70	098.90	85.40	0.00	099.11	100.76	099.84	099.04	
7	17.90	0.00	?UNDEF	?UNDEF	18.40	0.00	097.30	098.86	84.50	0.00	099.06	100.72	099.54	098.79	
8	17.60	0.00	?UNDEF	?UNDEF	19.90	0.00	097.43	099.27	82.70	0.00	098.90	100.66	099.23	098.78	
9	17.50	0.00	?UNDEF	?UNDEF	18.10	0.00	097.13	099.63	80.30	0.00	099.25	100.62	099.17	098.85	
10	18.00	0.00	?UNDEF	?UNDEF	18.20	0.00	097.19	099.64	83.90	0.00	099.47	100.72	099.67	099.07	
11	22.30	0.00	?UNDEF	?UNDEF	20.60	0.00	097.35	100.28	84.00	0.00	099.51	100.49	099.92	099.35	
12	21.10	0.00	?UNDEF	?UNDEF	20.90	0.00	097.39	099.63	84.00	0.00	100.20	099.83	100.13	099.80	
13	20.90	0.00	?UNDEF	?UNDEF	21.50	0.00	097.39	100.73	82.40	0.00	101.42	100.16	100.49	100.12	
14	21.00	0.00	?UNDEF	?UNDEF	21.30	0.00	097.30	109.35	83.20	0.00	101.59	099.95	100.53	100.50	
15	22.40	0.00	?UNDEF	?UNDEF	28.80	0.00	097.04	111.98	83.90	0.00	101.63	100.50	100.28	100.98	
16	20.50	0.00	?UNDEF	?UNDEF	29.00	0.00	097.04	107.92	85.50	0.00	101.62	100.12	100.26	101.13	
17	14.80	0.00	?UNDEF	?UNDEF	31.30	0.00	097.06	102.59	81.90	0.00	101.79	099.99	100.16	101.49	
18	16.10	0.00	?UNDEF	?UNDEF	22.60	0.00	097.07	100.58	84.10	0.00	101.46	100.48	100.12	101.35	
19	14.50	0.00	?UNDEF	?UNDEF	15.60	0.00	096.86	099.18	84.30	0.00	101.34	100.04	100.25	101.29	
20	13.20	0.00	?UNDEF	?UNDEF	12.80	0.00	096.56	098.50	83.70	0.00	101.13	099.99	099.76	100.86	
21	12.40	0.00	?UNDEF	?UNDEF	12.70	0.00	096.53	100.97	79.30	0.00	100.93	099.96	099.20	100.66	
22	12.90	0.00	?UNDEF	?UNDEF	14.20	0.00	096.45	104.52	78.40	0.00	100.36	099.89	098.90	100.36	
23	12.20	0.00	?UNDEF	?UNDEF	10.90	0.00	096.59	101.31	79.20	0.00	099.13	099.64	098.61	100.20	
24	12.00	0.00	?UNDEF	?UNDEF	9.20	0.00	096.55	100.48	75.40	0.00	098.61	099.46	098.53	100.20	

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HOUR	DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	
1	1.50	0.00	104.74	?UNDEF	?UNDEF	?UNDEF	?UNDEF	13.90	0.00	092.24	094.36	15.70	0.00	?UNDEF	?UNDEF	
2	1.50	0.00	104.86	?UNDEF	?UNDEF	?UNDEF	?UNDEF	13.90	0.00	093.75	094.40	14.20	0.00	?UNDEF	?UNDEF	
3	1.50	0.00	104.86	?UNDEF	?UNDEF	?UNDEF	?UNDEF	15.90	0.00	094.44	094.26	14.20	0.00	?UNDEF	?UNDEF	
4	1.50	0.00	104.86	?UNDEF	?UNDEF	?UNDEF	?UNDEF	13.90	0.00	093.19	094.11	14.20	0.00	?UNDEF	?UNDEF	
5	1.50	0.00	104.73	?UNDEF	?UNDEF	?UNDEF	?UNDEF	13.90	0.00	092.92	094.52	14.20	0.00	?UNDEF	?UNDEF	
6	1.60	0.00	104.74	?UNDEF	?UNDEF	?UNDEF	?UNDEF	13.90	0.00	093.08	094.54	14.30	0.00	?UNDEF	?UNDEF	
7	1.50	0.00	104.74	?UNDEF	?UNDEF	?UNDEF	?UNDEF	15.90	0.00	092.52	094.55	15.70	0.00	?UNDEF	?UNDEF	
8	1.60	0.00	104.92	?UNDEF	?UNDEF	?UNDEF	?UNDEF	17.80	0.00	092.03	094.42	14.20	0.00	?UNDEF	?UNDEF	
9	1.60	0.00	105.22	?UNDEF	?UNDEF	?UNDEF	?UNDEF	17.80	0.00	091.57	094.73	14.20	0.00	?UNDEF	?UNDEF	
10	1.50	0.00	105.82	?UNDEF	?UNDEF	?UNDEF	?UNDEF	16.50	0.00	090.26	094.93	14.20	0.00	?UNDEF	?UNDEF	
11	1.60	0.00	106.23	?UNDEF	?UNDEF	?UNDEF	?UNDEF	16.10	0.00	090.75	095.03	14.20	0.00	?UNDEF	?UNDEF	
12	1.50	0.00	106.36	?UNDEF	?UNDEF	?UNDEF	?UNDEF	16.10	0.00	091.19	095.12	14.50	0.00	?UNDEF	?UNDEF	
13	1.50	0.00	106.91	?UNDEF	?UNDEF	?UNDEF	?UNDEF	17.80	0.00	092.55	095.65	14.20	0.00	?UNDEF	?UNDEF	
14	1.50	0.00	107.55	?UNDEF	?UNDEF	?UNDEF	?UNDEF	15.20	0.00	093.07	096.46	15.70	0.00	?UNDEF	?UNDEF	
15	1.50	0.00	107.81	?UNDEF	?UNDEF	?UNDEF	?UNDEF	16.20	0.00	097.04	095.69	17.30	0.00	?UNDEF	?UNDEF	
16	1.50	0.00	107.68	?UNDEF	?UNDEF	?UNDEF	?UNDEF	18.10	0.00	098.26	095.94	19.20	0.00	?UNDEF	?UNDEF	
17	1.50	0.00	107.28	?UNDEF	?UNDEF	?UNDEF	?UNDEF	16.50	0.00	097.54	096.20	17.90	0.00	?UNDEF	?UNDEF	
18	1.50	0.00	106.65	?UNDEF	?UNDEF	?UNDEF	?UNDEF	16.20	0.00	095.80	095.78	17.80	0.00	?UNDEF	?UNDEF	
19	1.50	0.00	107.28	?UNDEF	?UNDEF	?UNDEF	?UNDEF	16.10	0.00	095.98	095.42	14.00	0.00	?UNDEF	?UNDEF	
20	1.50	0.00	105.69	?UNDEF	?UNDEF	?UNDEF	?UNDEF	16.00	0.00	096.83	095.55	13.50	0.00	?UNDEF	?UNDEF	
21	1.50	0.00	105.54	?UNDEF	?UNDEF	?UNDEF	?UNDEF	14.40	0.00	095.19	095.57	13.50	0.00	?UNDEF	?UNDEF	
22	1.50	0.00	105.33	?UNDEF	?UNDEF	?UNDEF	?UNDEF	14.20	0.00	094.13	094.92	13.50	0.00	?UNDEF	?UNDEF	
23	1.50	0.00	105.13	?UNDEF	?UNDEF	?UNDEF	?UNDEF	15.90	0.00	093.99	094.94	13.60	0.00	?UNDEF	?UNDEF	
24	1.50	0.00	105.06	?UNDEF	?UNDEF	?UNDEF	?UNDEF	14.20	0.00	093.51	095.54	13.80	0.00	?UNDEF	?UNDEF	
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT		
1	13.50	0.00	?UNDEF	?UNDEF	13.10	0.00	096.48	099.06	57.40	0.00	099.42	099.76	099.23	099.67		
2	13.60	0.00	?UNDEF	?UNDEF	13.30	0.00	096.29	099.81	62.90	0.00	100.07	099.72	099.36	099.50		
3	15.00	0.00	?UNDEF	?UNDEF	13.10	0.00	096.61	099.47	64.70	0.00	099.56	100.05	099.27	099.29		
4	13.50	0.00	?UNDEF	?UNDEF	13.10	0.00	096.36	099.10	59.80	0.00	098.94	099.64	099.15	099.18		
5	14.90	0.00	?UNDEF	?UNDEF	13.10	0.00	096.33	098.94	65.50	0.00	099.07	099.79	099.16	098.91		
6	13.40	0.00	?UNDEF	?UNDEF	27.40	0.00	096.36	098.97	91.50	0.00	099.09	099.80	099.41	098.90		
7	13.50	0.00	?UNDEF	?UNDEF	13.20	0.00	096.24	098.85	118.60	0.00	098.98	099.71	099.44	098.77		
8	17.00	0.00	?UNDEF	?UNDEF	13.10	0.00	096.28	098.96	115.00	0.00	099.25	100.11	099.44	098.66		
9	15.60	0.00	?UNDEF	?UNDEF	14.60	0.00	096.29	099.06	117.90	0.00	099.58	100.19	099.53	098.71		
10	15.70	0.00	?UNDEF	?UNDEF	13.10	0.00	096.73	099.42	118.60	0.00	099.85	100.09	099.80	098.86		
11	15.00	0.00	?UNDEF	?UNDEF	20.30	0.00	096.80	100.15	119.70	0.00	100.20	100.44	100.16	099.20		
12	16.30	0.00	?UNDEF	?UNDEF	13.00	0.00	096.91	100.05	120.40	0.00	101.09	101.16	100.24	099.67		
13	15.10	0.00	?UNDEF	?UNDEF	14.50	0.00	097.11	101.25	120.00	0.00	101.70	101.88	100.16	100.13		
14	15.00	0.00	?UNDEF	?UNDEF	14.80	0.00	097.09	101.10	120.30	0.00	101.77	102.52	100.26	100.53		
15	16.00	0.00	?UNDEF	?UNDEF	19.90	0.00	097.38	103.48	120.80	0.00	101.79	102.77	100.28	100.94		
16	23.50	0.00	?UNDEF	?UNDEF	25.20	0.00	097.33	102.44	112.60	0.00	102.75	102.80	100.42	101.08		
17	21.90	0.00	?UNDEF	?UNDEF	27.40	0.00	097.39	100.57	87.60	0.00	102.46	102.37	100.55	101.37		
18	21.70	0.00	?UNDEF	?UNDEF	27.00	0.00	097.65	099.72	84.20	0.00	102.35	102.13	100.43	101.40		
19	18.70	0.00	?UNDEF	?UNDEF	22.70	0.00	097.61	099.40	84.20	0.00	101.78	101.58	100.13	100.81		
20	16.20	0.00	?UNDEF	?UNDEF	17.80	0.00	097.44	099.65	69.50	0.00	100.20	101.64	099.91	100.62		
21	13.70	0.00	?UNDEF	?UNDEF	13.10	0.00	097.25	099.04	69.50	0.00	099.64	101.50	099.62	100.45		
22	13.70	0.00	?UNDEF	?UNDEF	13.30	0.00	097.39	099.68	69.50	0.00	099.80	101.49	099.61	100.21		
23	13.60	0.00	?UNDEF	?UNDEF	13.00	0.00	097.47	098.88	69.50	0.00	101.63	101.30	099.88	100.19		
24	13.60	0.00	?UNDEF	?UNDEF	13.00	0.00	097.35	099.02	60.30	0.00	101.33	100.92	099.45	100.19		

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DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	
1	1.50	0.00	104.93	?UNDEF	?UNDEF	?UNDEF	12.60	0.00	094.93	095.99	12.40	0.00	?UNDEF	?UNDEF	
2	1.60	0.00	104.86	?UNDEF	?UNDEF	?UNDEF	12.70	0.00	095.53	095.81	12.10	0.00	?UNDEF	?UNDEF	
3	1.50	0.00	104.74	?UNDEF	?UNDEF	?UNDEF	12.50	0.00	095.11	095.92	13.70	0.00	?UNDEF	?UNDEF	
4	1.50	0.00	104.71	?UNDEF	?UNDEF	?UNDEF	12.50	0.00	094.04	095.88	12.30	0.00	?UNDEF	?UNDEF	
5	1.60	0.00	104.56	?UNDEF	?UNDEF	?UNDEF	12.50	0.00	095.51	095.88	16.90	0.00	?UNDEF	?UNDEF	
6	1.50	0.00	104.85	?UNDEF	?UNDEF	?UNDEF	14.30	0.00	095.38	096.96	16.90	0.00	?UNDEF	?UNDEF	
7	1.60	0.00	104.96	?UNDEF	?UNDEF	?UNDEF	16.20	0.00	095.15	096.43	17.90	0.00	?UNDEF	?UNDEF	
8	1.50	0.00	105.01	?UNDEF	?UNDEF	?UNDEF	16.00	0.00	095.40	096.05	17.50	0.00	?UNDEF	?UNDEF	
9	1.60	0.00	105.00	?UNDEF	?UNDEF	?UNDEF	16.10	0.00	095.16	095.79	17.60	0.00	?UNDEF	?UNDEF	
10	1.50	0.00	105.19	?UNDEF	?UNDEF	?UNDEF	16.20	0.00	095.31	095.59	19.10	0.00	?UNDEF	?UNDEF	
11	1.50	0.00	105.53	?UNDEF	?UNDEF	?UNDEF	16.10	0.00	095.89	095.42	17.90	0.00	?UNDEF	?UNDEF	
12	1.50	0.00	106.27	?UNDEF	?UNDEF	?UNDEF	16.10	0.00	096.14	095.47	17.60	0.00	?UNDEF	?UNDEF	
13	1.50	0.00	106.80	?UNDEF	?UNDEF	?UNDEF	16.10	0.00	095.48	096.18	19.10	0.00	?UNDEF	?UNDEF	
14	1.50	0.00	106.93	?UNDEF	?UNDEF	?UNDEF	16.40	0.00	094.37	096.37	19.10	0.00	?UNDEF	?UNDEF	
15	1.60	0.00	106.85	?UNDEF	?UNDEF	?UNDEF	16.30	0.00	094.40	096.67	17.60	0.00	?UNDEF	?UNDEF	
16	1.50	0.00	106.74	?UNDEF	?UNDEF	?UNDEF	16.20	0.00	094.09	097.58	17.90	0.00	?UNDEF	?UNDEF	
17	1.50	0.00	106.43	?UNDEF	?UNDEF	?UNDEF	17.30	0.00	094.21	096.76	17.60	0.00	?UNDEF	?UNDEF	
18	1.50	0.00	105.89	?UNDEF	?UNDEF	?UNDEF	19.20	0.00	095.80	096.19	17.60	0.00	?UNDEF	?UNDEF	
19	1.60	0.00	106.43	?UNDEF	?UNDEF	?UNDEF	17.40	0.00	096.13	095.88	17.60	0.00	?UNDEF	?UNDEF	
20	1.50	0.00	105.08	?UNDEF	?UNDEF	?UNDEF	18.90	0.00	094.72	095.65	16.90	0.00	?UNDEF	?UNDEF	
21	1.60	0.00	104.79	?UNDEF	?UNDEF	?UNDEF	14.40	0.00	093.46	095.08	16.80	0.00	?UNDEF	?UNDEF	
22	1.60	0.00	104.70	?UNDEF	?UNDEF	?UNDEF	13.90	0.00	094.04	095.34	14.50	0.00	?UNDEF	?UNDEF	
23	1.50	0.00	104.63	?UNDEF	?UNDEF	?UNDEF	13.90	0.00	094.13	095.03	15.70	0.00	?UNDEF	?UNDEF	
24	1.50	0.00	104.53	?UNDEF	?UNDEF	?UNDEF	13.90	0.00	093.46	094.79	15.80	0.00	?UNDEF	?UNDEF	
LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT	
1	12.50	0.00	?UNDEF	?UNDEF	11.70	0.00	095.63	098.61	69.60	0.00	100.37	100.76	100.21	099.17	
2	13.80	0.00	?UNDEF	?UNDEF	9.60	0.00	095.91	099.67	70.70	0.00	100.07	100.17	099.76	098.90	
3	13.60	0.00	?UNDEF	?UNDEF	10.80	0.00	096.80	098.31	75.20	0.00	099.95	100.57	099.50	098.84	
4	13.70	0.00	?UNDEF	?UNDEF	9.30	0.00	096.42	098.19	69.30	0.00	099.97	100.61	099.38	098.71	
5	18.90	0.00	?UNDEF	?UNDEF	9.30	0.00	096.25	098.15	80.20	0.00	099.87	100.32	099.54	098.72	
6	16.90	0.00	?UNDEF	?UNDEF	10.90	0.00	096.25	098.21	89.80	0.00	099.84	100.60	099.54	098.59	
7	17.30	0.00	?UNDEF	?UNDEF	13.60	0.00	096.55	098.49	114.50	0.00	099.75	101.16	099.68	098.60	
8	17.60	0.00	?UNDEF	?UNDEF	22.40	0.00	097.04	099.19	110.90	0.00	099.48	101.04	099.70	098.58	
9	19.70	0.00	?UNDEF	?UNDEF	24.40	0.00	097.41	100.17	109.00	0.00	099.35	100.37	099.82	098.72	
10	18.90	0.00	?UNDEF	?UNDEF	22.80	0.00	097.32	100.08	109.90	0.00	099.28	100.21	099.78	?UNDEF	
11	20.40	0.00	?UNDEF	?UNDEF	22.80	0.00	097.30	108.59	110.10	0.00	099.44	100.21	100.05	?UNDEF	
12	21.40	0.00	?UNDEF	?UNDEF	25.70	0.00	097.18	109.57	111.90	0.00	099.47	100.35	100.59	?UNDEF	
13	21.80	0.00	?UNDEF	?UNDEF	22.90	0.00	097.24	110.87	109.30	0.00	099.44	100.80	100.88	?UNDEF	
14	23.30	0.00	?UNDEF	?UNDEF	23.70	0.00	097.55	104.57	111.30	0.00	101.05	101.01	100.88	100.04	
15	21.90	0.00	?UNDEF	?UNDEF	21.50	0.00	097.37	101.78	94.80	0.00	102.43	100.93	100.82	100.60	
16	21.80	0.00	?UNDEF	?UNDEF	18.60	0.00	097.33	103.59	91.30	0.00	102.18	100.77	100.92	100.81	
17	22.10	0.00	?UNDEF	?UNDEF	26.70	0.00	097.53	100.83	87.00	0.00	102.15	102.45	100.87	101.07	
18	21.80	0.00	?UNDEF	?UNDEF	20.30	0.00	097.25	104.67	89.20	0.00	100.84	101.30	100.91	101.16	
19	21.70	0.00	?UNDEF	?UNDEF	17.80	0.00	096.85	101.57	90.80	0.00	099.39	101.01	100.79	101.01	
20	18.80	0.00	?UNDEF	?UNDEF	12.90	0.00	096.54	101.14	91.60	0.00	099.40	100.36	100.50	100.85	
21	17.50	0.00	?UNDEF	?UNDEF	14.30	0.00	096.49	099.51	82.20	0.00	099.64	100.28	100.00	100.64	
22	13.50	0.00	?UNDEF	?UNDEF	9.40	0.00	096.41	099.36	67.60	0.00	099.70	099.93	099.80	100.41	
23	13.30	0.00	?UNDEF	?UNDEF	9.40	0.00	096.20	098.91	56.50	0.00	099.92	100.01	099.62	100.05	
24	14.90	0.00	?UNDEF	?UNDEF	12.90	0.00	096.35	098.86	54.60	0.00	099.38	100.00	099.49	100.05	

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HOUR	DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
	TOTAL DISCH. KCFS	SPILL KCFS	GAS TAILW.	%SAT	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	
1	1.50	0.00	104.53	?UNDEF	?UNDEF	?UNDEF	?UNDEF	12.70	0.00	100.81	097.18	13.60	0.00	104.80	096.28	
2	1.60	0.00	104.57	?UNDEF	?UNDEF	?UNDEF	?UNDEF	12.70	0.00	100.23	097.22	12.00	0.00	105.11	096.33	
3	1.50	0.00	104.58	?UNDEF	?UNDEF	?UNDEF	?UNDEF	12.90	0.00	101.92	097.32	12.10	0.00	105.33	096.28	
4	1.60	0.00	104.80	?UNDEF	?UNDEF	?UNDEF	?UNDEF	14.40	0.00	104.44	097.38	12.30	0.00	104.03	096.34	
5	1.50	0.00	104.83	?UNDEF	?UNDEF	?UNDEF	?UNDEF	12.70	0.00	103.57	097.82	12.10	0.00	102.94	096.44	
6	1.60	0.00	105.07	?UNDEF	?UNDEF	?UNDEF	?UNDEF	12.70	0.00	103.95	097.57	12.00	0.00	104.02	096.41	
7	1.50	0.00	105.26	?UNDEF	?UNDEF	?UNDEF	?UNDEF	12.70	0.00	104.61	097.78	12.10	0.00	103.57	096.50	
8	1.60	0.00	105.31	?UNDEF	?UNDEF	?UNDEF	?UNDEF	13.80	0.00	104.44	098.13	12.60	0.00	101.23	096.63	
9	1.50	0.00	105.71	?UNDEF	?UNDEF	?UNDEF	?UNDEF	13.80	0.00	103.48	098.97	13.80	0.00	103.27	096.49	
10	1.60	0.00	105.99	?UNDEF	?UNDEF	?UNDEF	?UNDEF	13.80	0.00	103.09	098.85	12.00	0.00	?UNDEF	?UNDEF	
11	1.50	0.00	106.76	?UNDEF	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	103.63	098.74	12.00	0.00	?UNDEF	?UNDEF	
12	1.60	0.00	107.26	?UNDEF	?UNDEF	?UNDEF	?UNDEF	13.80	0.00	101.13	098.55	12.00	0.00	?UNDEF	?UNDEF	
13	1.50	0.00	107.18	?UNDEF	?UNDEF	?UNDEF	?UNDEF	13.90	0.00	099.40	098.69	12.10	0.00	?UNDEF	?UNDEF	
14	1.50	0.00	107.26	?UNDEF	?UNDEF	?UNDEF	?UNDEF	13.70	0.00	099.80	098.73	12.30	0.00	?UNDEF	?UNDEF	
15	1.50	0.00	107.14	?UNDEF	?UNDEF	?UNDEF	?UNDEF	19.50	0.00	099.55	098.28	13.60	0.00	?UNDEF	?UNDEF	
16	1.60	0.00	106.35	?UNDEF	?UNDEF	?UNDEF	?UNDEF	20.80	0.00	098.71	098.69	12.10	0.00	?UNDEF	?UNDEF	
17	1.50	0.00	105.77	?UNDEF	?UNDEF	?UNDEF	?UNDEF	22.10	0.00	098.41	098.39	12.10	0.00	?UNDEF	?UNDEF	
18	1.60	0.00	105.50	?UNDEF	?UNDEF	?UNDEF	?UNDEF	20.40	0.00	098.54	097.73	12.00	0.00	?UNDEF	?UNDEF	
19	1.50	0.00	105.77	?UNDEF	?UNDEF	?UNDEF	?UNDEF	20.50	0.00	097.72	097.43	12.30	0.00	?UNDEF	?UNDEF	
20	1.50	0.00	105.19	?UNDEF	?UNDEF	?UNDEF	?UNDEF	16.70	0.00	098.17	096.56	16.40	0.00	?UNDEF	?UNDEF	
21	1.60	0.00	105.15	?UNDEF	?UNDEF	?UNDEF	?UNDEF	14.80	0.00	096.92	096.80	16.60	0.00	?UNDEF	?UNDEF	
22	1.50	0.00	104.97	?UNDEF	?UNDEF	?UNDEF	?UNDEF	14.70	0.00	096.59	095.80	15.00	0.00	?UNDEF	?UNDEF	
23	1.60	0.00	104.88	?UNDEF	?UNDEF	?UNDEF	?UNDEF	15.00	0.00	095.94	095.23	12.90	0.00	?UNDEF	?UNDEF	
24	1.50	0.00	104.96	?UNDEF	?UNDEF	?UNDEF	?UNDEF	12.60	0.00	094.88	096.52	12.80	0.00	?UNDEF	?UNDEF	
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT		
1	13.60	0.00	099.33	096.42	12.80	0.00	100.30	100.79	58.80	0.00	104.53	103.64	100.21	102.21		
2	13.60	0.00	099.23	096.20	14.00	0.00	100.09	100.43	63.40	0.00	105.42	101.73	100.27	102.11		
3	13.70	0.00	099.31	096.26	12.70	0.00	099.72	100.07	62.50	0.00	105.16	101.58	100.40	102.01		
4	14.00	0.00	099.34	096.16	12.60	0.00	099.69	099.87	62.70	0.00	105.10	100.66	100.24	101.79		
5	13.70	0.00	099.47	096.35	12.60	0.00	099.62	099.96	82.80	0.00	103.27	100.64	100.24	101.61		
6	15.00	0.00	099.40	096.79	12.80	0.00	099.66	100.70	87.90	0.00	105.28	100.82	100.31	101.44		
7	13.60	0.00	099.21	098.08	12.50	0.00	099.72	100.34	104.00	0.00	101.66	100.94	100.28	101.19		
8	13.70	0.00	099.04	097.56	14.30	0.00	099.58	100.27	114.70	0.00	100.42	100.89	100.49	101.17		
9	15.40	0.00	099.42	098.01	12.70	0.00	099.53	100.20	121.00	0.00	101.42	100.86	100.72	101.19		
10	14.00	0.00	?UNDEF	?UNDEF	12.50	0.00	099.96	100.24	116.40	0.00	100.74	100.73	100.97	101.24		
11	13.30	0.00	?UNDEF	?UNDEF	12.80	0.00	100.16	100.43	116.00	0.00	100.19	101.87	101.15	101.26		
12	13.80	0.00	?UNDEF	?UNDEF	12.50	0.00	100.26	102.01	115.50	0.00	102.06	101.56	101.43	101.69		
13	12.30	0.00	?UNDEF	?UNDEF	12.50	0.00	101.64	108.97	115.30	0.00	100.08	101.76	101.56	101.84		
14	12.50	0.00	?UNDEF	?UNDEF	12.50	0.00	098.79	111.54	115.80	0.00	100.33	101.96	101.74	101.62		
15	12.40	0.00	?UNDEF	?UNDEF	12.60	0.00	097.19	112.63	115.60	0.00	101.58	101.54	101.55	101.53		
16	12.40	0.00	?UNDEF	?UNDEF	12.90	0.00	096.49	113.00	115.90	0.00	102.06	101.67	101.43	101.38		
17	12.50	0.00	?UNDEF	?UNDEF	13.30	0.00	096.22	112.83	117.00	0.00	102.27	101.49	101.30	101.35		
18	12.30	0.00	?UNDEF	?UNDEF	12.70	0.00	096.01	113.93	117.00	0.00	102.22	101.66	101.26	101.15		
19	12.30	0.00	?UNDEF	?UNDEF	14.20	0.00	096.30	114.01	112.40	0.00	101.67	101.96	100.92	100.78		
20	12.30	0.00	?UNDEF	?UNDEF	12.70	0.00	097.02	112.85	111.80	0.00	101.16	101.74	100.63	100.41		
21	12.30	0.00	?UNDEF	?UNDEF	12.40	0.00	097.07	104.85	106.70	0.00	100.75	101.39	100.53	100.04		
22	12.30	0.00	?UNDEF	?UNDEF	10.60	0.00	096.47	101.05	104.20	0.00	100.53	100.92	100.32	099.85		
23	12.50	0.00	?UNDEF	?UNDEF	11.60	0.00	096.00	101.27	85.70	0.00	100.47	100.95	100.41	099.53		
24	14.90	0.00	?UNDEF	?UNDEF	11.80	0.00	095.78	098.92	77.50	0.00	100.41	100.85	100.36	099.53		

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DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	
1	1.50	0.00	104.83	?UNDEF	?UNDEF	?UNDEF	12.70	0.00	104.01	098.46	13.60	0.00	098.57	096.25	
2	1.50	0.00	104.75	?UNDEF	?UNDEF	?UNDEF	12.70	0.00	102.95	098.41	12.10	0.00	098.67	095.94	
3	1.60	0.00	104.86	?UNDEF	?UNDEF	?UNDEF	12.70	0.00	101.73	098.46	12.30	0.00	098.76	096.04	
4	1.50	0.00	104.96	?UNDEF	?UNDEF	?UNDEF	12.90	0.00	099.95	098.21	12.10	0.00	098.84	095.89	
5	1.60	0.00	104.77	?UNDEF	?UNDEF	?UNDEF	12.70	0.00	099.35	097.87	13.60	0.00	098.42	095.88	
6	1.50	0.00	104.83	?UNDEF	?UNDEF	?UNDEF	12.60	0.00	099.03	097.55	12.10	0.00	098.24	095.83	
7	1.60	0.00	104.64	?UNDEF	?UNDEF	?UNDEF	12.60	0.00	099.37	097.20	12.10	0.00	098.47	095.63	
8	1.50	0.00	104.69	?UNDEF	?UNDEF	?UNDEF	12.70	0.00	098.49	097.26	12.30	0.00	098.66	095.79	
9	1.60	0.00	105.19	?UNDEF	?UNDEF	?UNDEF	12.70	0.00	099.29	097.24	12.10	0.00	099.02	095.75	
10	1.50	0.00	105.46	?UNDEF	?UNDEF	?UNDEF	12.70	0.00	100.76	097.38	12.10	0.00	099.30	095.94	
11	1.60	0.00	105.91	?UNDEF	?UNDEF	?UNDEF	13.00	0.00	100.78	097.66	12.10	0.00	100.38	096.10	
12	1.50	0.00	106.66	?UNDEF	?UNDEF	?UNDEF	12.70	0.00	102.71	097.69	12.10	0.00	101.36	096.13	
13	1.60	0.00	107.31	?UNDEF	?UNDEF	?UNDEF	13.00	0.00	101.01	098.14	12.20	0.00	102.10	096.71	
14	1.50	0.00	107.70	?UNDEF	?UNDEF	?UNDEF	12.70	0.00	104.77	098.38	12.10	0.00	099.11	096.70	
15	1.60	0.00	107.81	?UNDEF	?UNDEF	?UNDEF	14.50	0.00	106.59	098.84	12.10	0.00	098.20	096.95	
16	1.60	0.00	107.49	?UNDEF	?UNDEF	?UNDEF	12.80	0.00	105.65	099.66	12.10	0.00	098.76	096.99	
17	1.50	0.00	107.01	?UNDEF	?UNDEF	?UNDEF	12.70	0.00	103.08	098.48	12.10	0.00	099.23	097.03	
18	1.60	0.00	106.48	?UNDEF	?UNDEF	?UNDEF	12.70	0.00	100.55	098.11	12.30	0.00	099.47	096.90	
19	1.50	0.00	107.01	?UNDEF	?UNDEF	?UNDEF	12.70	0.00	098.48	097.52	12.00	0.00	099.87	096.48	
20	1.60	0.00	105.21	?UNDEF	?UNDEF	?UNDEF	12.70	0.00	097.52	097.41	12.10	0.00	104.16	096.33	
21	1.50	0.00	105.01	?UNDEF	?UNDEF	?UNDEF	13.00	0.00	096.53	097.10	12.10	0.00	104.94	096.05	
22	1.60	0.00	104.86	?UNDEF	?UNDEF	?UNDEF	12.70	0.00	095.86	097.11	12.10	0.00	103.85	096.15	
23	1.50	0.00	104.78	?UNDEF	?UNDEF	?UNDEF	12.70	0.00	100.77	097.25	12.30	0.00	102.14	096.20	
24	1.60	0.00	104.78	?UNDEF	?UNDEF	?UNDEF	12.70	0.00	102.26	097.11	12.10	0.00	104.19	096.24	
LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT			
1	13.90	0.00	098.98	096.35	12.70	0.00	100.56	099.36	58.40	0.00	102.80	100.55	099.79	101.71	
2	14.00	0.00	098.92	096.16	11.30	0.00	100.79	100.21	61.60	0.00	103.08	101.43	099.99	101.52	
3	13.70	0.00	098.90	096.00	12.00	0.00	100.79	099.81	66.40	0.00	102.92	101.02	099.84	101.51	
4	15.20	0.00	098.86	096.06	11.80	0.00	100.91	099.40	66.60	0.00	103.03	100.88	099.68	101.35	
5	13.70	0.00	098.83	096.83	12.20	0.00	100.88	099.21	67.90	0.00	101.09	101.32	099.62	101.32	
6	13.80	0.00	098.75	095.94	14.60	0.00	100.74	099.21	80.00	0.00	099.81	101.39	099.67	101.03	
7	13.90	0.00	098.70	095.61	13.10	0.00	100.50	099.25	84.40	0.00	099.28	101.63	099.50	100.81	
8	14.00	0.00	098.64	095.54	12.90	0.00	100.07	099.64	82.90	0.00	099.10	101.71	099.85	100.51	
9	14.10	0.00	098.64	095.85	12.90	0.00	100.01	099.81	90.10	0.00	099.36	101.55	100.08	100.49	
10	13.80	0.00	099.15	096.15	13.20	0.00	100.12	100.33	92.50	0.00	099.73	101.93	100.36	100.60	
11	14.20	0.00	100.27	096.43	12.90	0.00	100.12	100.96	90.90	0.00	098.68	099.97	100.41	100.71	
12	14.20	0.00	100.01	096.96	12.90	0.00	100.19	100.59	92.50	0.00	099.17	099.76	100.57	101.16	
13	14.20	0.00	099.29	097.50	14.40	0.00	100.25	100.90	90.10	0.00	102.92	099.81	100.77	102.17	
14	14.10	0.00	099.23	097.91	13.20	0.00	100.31	101.44	90.90	0.00	103.66	100.03	100.98	102.38	
15	14.10	0.00	098.78	098.26	14.50	0.00	099.99	102.59	88.50	0.00	104.58	100.23	101.18	102.83	
16	13.90	0.00	098.49	098.13	14.60	0.00	099.58	102.13	81.70	0.00	104.84	100.04	101.54	102.98	
17	13.60	0.00	098.41	097.83	13.20	0.00	099.80	102.52	80.30	0.00	106.78	099.93	101.43	103.31	
18	13.60	0.00	098.13	097.06	14.50	0.00	099.50	107.24	89.30	0.00	107.48	099.41	101.07	103.34	
19	13.70	0.00	097.83	096.57	13.40	0.00	099.38	110.28	90.80	0.00	107.22	099.53	100.66	103.30	
20	13.70	0.00	097.67	096.06	13.10	0.00	099.49	112.81	94.30	0.00	107.33	100.15	100.36	103.15	
21	13.80	0.00	097.66	095.86	13.10	0.00	099.61	112.26	92.20	0.00	104.63	099.91	100.36	102.90	
22	15.10	0.00	098.08	095.81	13.00	0.00	099.62	108.26	87.20	0.00	104.26	100.19	100.26	102.61	
23	13.70	0.00	098.94	095.54	12.60	0.00	100.21	104.57	67.60	0.00	103.47	100.32	100.25	102.54	
24	13.70	0.00	099.22	096.33	12.70	0.00	100.36	101.79	61.80	0.00	103.31	104.28	100.21	102.54	

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	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.60	0.00	104.34	?UNDEF	?UNDEF	?UNDEF	14.30	0.00	108.16	097.65	14.20	0.00	106.56	096.74
2	1.50	0.00	104.48	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	109.13	097.55	14.40	0.00	106.29	096.89
3	1.60	0.00	104.57	?UNDEF	?UNDEF	?UNDEF	15.70	0.00	107.38	097.28	14.20	0.00	106.29	096.89
4	1.50	0.00	104.61	?UNDEF	?UNDEF	?UNDEF	14.60	0.00	106.99	097.19	14.20	0.00	105.48	096.73
5	1.60	0.00	104.30	?UNDEF	?UNDEF	?UNDEF	14.90	0.00	106.15	097.81	14.20	0.00	104.39	096.73
6	1.50	0.00	104.02	?UNDEF	?UNDEF	?UNDEF	14.60	0.00	105.22	097.63	14.20	0.00	103.45	096.60
7	1.60	0.00	104.08	?UNDEF	?UNDEF	?UNDEF	14.10	0.00	103.71	097.51	16.00	0.00	102.50	096.69
8	1.50	0.00	104.38	?UNDEF	?UNDEF	?UNDEF	14.10	0.00	102.17	097.73	14.20	0.00	101.83	096.68
9	1.50	0.00	104.79	?UNDEF	?UNDEF	?UNDEF	14.20	0.00	101.32	098.17	14.20	0.00	101.42	096.97
10	1.50	0.00	105.26	?UNDEF	?UNDEF	?UNDEF	14.10	0.00	101.15	098.65	14.10	0.00	100.94	097.13
11	1.60	0.00	106.20	?UNDEF	?UNDEF	?UNDEF	14.40	0.00	103.40	099.08	14.10	0.00	100.56	097.37
12	1.50	0.00	107.00	?UNDEF	?UNDEF	?UNDEF	14.10	0.00	103.00	099.60	14.30	0.00	100.55	097.57
13	1.60	0.00	107.69	?UNDEF	?UNDEF	?UNDEF	13.80	0.00	106.99	099.77	12.60	0.00	100.89	097.66
14	1.50	0.00	107.98	?UNDEF	?UNDEF	?UNDEF	13.90	0.00	105.63	100.18	12.50	0.00	101.40	097.77
15	1.60	0.00	108.10	?UNDEF	?UNDEF	?UNDEF	15.60	0.00	106.83	100.70	12.50	0.00	102.27	097.83
16	1.50	0.00	108.10	?UNDEF	?UNDEF	?UNDEF	13.80	0.00	108.93	100.64	12.50	0.00	101.61	097.78
17	1.60	0.00	107.50	?UNDEF	?UNDEF	?UNDEF	13.10	0.00	105.26	100.47	14.20	0.00	102.46	097.83
18	1.50	0.00	106.89	?UNDEF	?UNDEF	?UNDEF	12.90	0.00	106.37	100.07	12.50	0.00	101.92	097.56
19	1.50	0.00	107.50	?UNDEF	?UNDEF	?UNDEF	12.90	0.00	108.47	099.47	12.50	0.00	099.96	097.53
20	1.50	0.00	105.70	?UNDEF	?UNDEF	?UNDEF	12.70	0.00	108.13	099.17	12.50	0.00	099.01	097.36
21	1.50	0.00	105.52	?UNDEF	?UNDEF	?UNDEF	14.40	0.00	107.01	098.84	12.50	0.00	098.56	097.07
22	1.50	0.00	105.63	?UNDEF	?UNDEF	?UNDEF	12.90	0.00	108.17	099.62	12.70	0.00	098.68	096.93
23	1.60	0.00	105.45	?UNDEF	?UNDEF	?UNDEF	12.70	0.00	106.52	099.08	12.10	0.00	098.10	096.74
24	1.60	0.00	105.12	?UNDEF	?UNDEF	?UNDEF	12.70	0.00	105.68	098.66	12.10	0.00	098.75	096.47

HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO	
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	13.40	0.00	100.28	097.92	12.40	0.00	100.09	102.17	56.90	0.00	101.10	101.15	100.42	101.08
2	13.50	0.00	100.63	097.79	12.20	0.00	100.13	100.84	60.70	0.00	100.57	100.88	100.38	100.95
3	14.90	0.00	101.07	098.11	11.20	0.00	100.27	100.45	58.20	0.00	099.25	101.19	100.22	100.93
4	13.40	0.00	101.13	098.24	9.40	0.00	100.36	100.19	59.50	0.00	098.78	101.16	100.25	100.92
5	13.40	0.00	101.13	097.43	10.90	0.00	100.92	100.03	60.30	0.00	098.79	101.17	100.22	100.80
6	13.80	0.00	100.99	097.28	9.40	0.00	100.49	?UNDEF	61.30	0.00	099.06	101.57	099.84	100.67
7	13.50	0.00	101.01	097.34	9.40	0.00	100.21	?UNDEF	61.70	0.00	099.81	101.49	099.78	100.36
8	13.50	0.00	100.82	097.43	11.10	0.00	099.67	?UNDEF	72.60	0.00	099.65	101.52	099.91	100.20
9	13.40	0.00	101.02	097.66	9.20	0.00	099.28	?UNDEF	72.20	0.00	099.39	101.24	100.03	100.19
10	13.40	0.00	100.91	098.27	9.30	0.00	099.11	100.88	71.60	0.00	101.30	100.71	100.30	100.47
11	14.70	0.00	100.94	099.00	12.50	0.00	099.16	101.17	69.60	0.00	102.70	101.17	100.51	100.91
12	14.70	0.00	100.99	099.53	12.70	0.00	099.20	101.10	67.90	0.00	103.29	101.49	100.86	101.43
13	14.90	0.00	101.08	099.65	12.90	0.00	099.44	102.20	71.10	0.00	104.13	101.17	101.32	101.85
14	14.00	0.00	101.20	100.23	12.70	0.00	099.36	102.21	68.50	0.00	103.81	101.39	101.56	102.35
15	13.90	0.00	101.80	099.97	14.20	0.00	099.58	101.89	75.90	0.00	100.99	102.75	101.51	102.43
16	15.50	0.00	101.64	099.61	12.80	0.00	099.80	101.67	76.60	0.00	100.35	105.28	101.42	102.66
17	13.90	0.00	101.42	100.38	14.20	0.00	100.19	101.42	90.80	0.00	101.64	106.57	101.66	102.89
18	14.00	0.00	100.86	099.72	14.30	0.00	100.32	101.23	91.40	0.00	099.80	105.52	101.52	102.90
19	17.30	0.00	100.61	098.28	13.00	0.00	100.07	101.42	78.30	0.00	099.31	105.38	101.43	102.90
20	17.20	0.00	099.92	097.90	12.90	0.00	099.80	101.07	82.40	0.00	099.18	102.96	100.89	102.80
21	15.80	0.00	099.58	097.41	12.80	0.00	099.76	100.78	81.10	0.00	099.04	101.07	100.61	102.50
22	14.00	0.00	099.58	096.89	14.30	0.00	099.44	100.47	67.80	0.00	102.73	100.64	100.42	102.43
23	13.90	0.00	099.29	096.72	13.00	0.00	100.00	100.15	65.20	0.00	103.07	101.11	100.07	102.14
24	13.80	0.00	099.14	096.68	12.70	0.00	100.09	099.48	58.50	0.00	102.94	100.98	099.93	102.14

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WALLA WALLA DISTRICT HYDRO PROJECTS
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	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.40	0.00	104.28	?UNDEF	?UNDEF	?UNDEF	16.90	0.00	098.91	097.30	13.80	0.00	097.07	096.25
2	1.40	0.00	104.22	?UNDEF	?UNDEF	?UNDEF	17.50	0.00	099.06	097.32	12.70	0.00	097.07	096.12
3	1.50	0.00	104.18	?UNDEF	?UNDEF	?UNDEF	17.10	0.00	099.32	097.31	14.30	0.00	097.19	096.22
4	1.40	0.00	103.91	?UNDEF	?UNDEF	?UNDEF	14.40	0.00	099.45	097.30	12.70	0.00	097.07	096.22
5	1.50	0.00	103.70	?UNDEF	?UNDEF	?UNDEF	14.20	0.00	099.95	097.26	12.70	0.00	096.89	096.15
6	1.40	0.00	103.72	?UNDEF	?UNDEF	?UNDEF	14.30	0.00	099.54	097.12	12.90	0.00	096.75	096.15
7	1.60	0.00	103.47	?UNDEF	?UNDEF	?UNDEF	16.90	0.00	099.62	097.08	12.70	0.00	096.83	096.13
8	1.50	0.00	103.63	?UNDEF	?UNDEF	?UNDEF	17.40	0.00	099.77	097.21	12.70	0.00	096.98	095.97
9	1.60	0.00	103.95	?UNDEF	?UNDEF	?UNDEF	17.10	0.00	099.88	097.74	12.70	0.00	097.10	096.39
10	1.60	0.00	104.38	?UNDEF	?UNDEF	?UNDEF	17.20	0.00	100.23	098.22	12.70	0.00	097.14	096.70
11	1.50	0.00	104.89	?UNDEF	?UNDEF	?UNDEF	17.20	0.00	100.63	098.65	14.40	0.00	097.06	096.89
12	1.60	0.00	105.82	?UNDEF	?UNDEF	?UNDEF	18.90	0.00	101.81	098.55	12.70	0.00	097.14	096.96
13	1.50	0.00	106.62	?UNDEF	?UNDEF	?UNDEF	17.20	0.00	103.48	099.32	12.70	0.00	097.46	097.14
14	1.60	0.00	107.02	?UNDEF	?UNDEF	?UNDEF	15.70	0.00	104.26	099.38	12.70	0.00	097.69	097.53
15	1.50	0.00	107.29	?UNDEF	?UNDEF	?UNDEF	15.30	0.00	105.33	099.77	12.70	0.00	098.20	097.62
16	1.50	0.00	107.35	?UNDEF	?UNDEF	?UNDEF	15.30	0.00	107.52	099.66	14.10	0.00	098.39	097.81
17	1.50	0.00	106.88	?UNDEF	?UNDEF	?UNDEF	17.00	0.00	111.08	099.73	15.50	0.00	099.25	097.85
18	1.50	0.00	106.38	?UNDEF	?UNDEF	?UNDEF	15.60	0.00	109.81	099.66	14.00	0.00	098.12	097.66
19	1.60	0.00	106.88	?UNDEF	?UNDEF	?UNDEF	14.10	0.00	105.36	099.93	14.00	0.00	097.55	097.68
20	1.50	0.00	105.25	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	104.68	099.13	14.10	0.00	097.54	097.40
21	1.60	0.00	104.64	?UNDEF	?UNDEF	?UNDEF	18.40	0.00	104.11	098.61	14.40	0.00	097.68	097.24
22	1.50	0.00	104.35	?UNDEF	?UNDEF	?UNDEF	16.70	0.00	103.59	098.59	14.10	0.00	098.35	097.09
23	1.60	0.00	104.29	?UNDEF	?UNDEF	?UNDEF	14.20	0.00	102.89	098.14	14.20	0.00	102.90	096.96
24	1.50	0.00	104.13	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	102.35	098.05	15.70	0.00	106.32	096.97

	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO	
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	13.60	0.00	098.91	096.95	9.70	0.00	099.77	099.83	67.20	0.00	101.85	099.88	099.63	100.30
2	13.40	0.00	098.91	097.01	9.50	0.00	099.75	099.56	67.20	0.00	100.75	101.59	099.49	100.17
3	13.70	0.00	098.92	097.01	9.50	0.00	099.72	099.55	69.80	0.00	099.76	102.40	099.33	100.04
4	15.10	0.00	098.89	097.02	9.50	0.00	099.59	099.42	97.70	0.00	102.18	102.39	099.71	099.79
5	13.60	0.00	098.91	098.15	11.00	0.00	099.61	099.40	116.90	0.00	099.25	101.80	099.70	099.76
6	13.60	0.00	098.84	097.10	9.70	0.00	099.59	100.33	118.80	0.00	098.97	101.27	099.69	099.47
7	13.50	0.00	098.69	096.76	12.50	0.00	099.12	099.63	115.50	0.00	099.02	100.85	099.63	099.26
8	15.00	0.00	098.68	097.82	14.20	0.00	098.99	099.76	108.30	0.00	098.78	100.85	099.63	099.27
9	13.60	0.00	098.69	097.96	12.80	0.00	098.98	100.09	98.40	0.00	098.40	100.70	099.90	099.26
10	13.80	0.00	098.43	097.79	12.90	0.00	099.10	101.00	97.90	0.00	098.56	100.97	100.05	099.36
11	13.60	0.00	098.60	098.45	13.10	0.00	099.18	100.88	91.40	0.00	099.78	100.60	100.38	099.80
12	13.50	0.00	098.98	099.18	14.40	0.00	099.32	105.06	78.80	0.00	098.93	101.22	100.45	100.45
13	13.50	0.00	098.88	099.60	12.70	0.00	099.24	108.20	76.60	0.00	099.27	101.71	100.80	100.90
14	13.50	0.00	098.98	100.11	12.70	0.00	099.21	112.39	82.00	0.00	098.98	101.94	100.91	101.38
15	13.50	0.00	099.09	100.19	14.00	0.00	099.51	115.31	82.80	0.00	099.84	104.84	101.28	101.91
16	13.40	0.00	099.01	100.28	13.50	0.00	100.12	114.94	83.80	0.00	099.80	104.79	101.12	102.18
17	15.10	0.00	099.07	099.92	13.10	0.00	100.35	108.79	85.10	0.00	100.00	104.89	101.20	102.26
18	13.30	0.00	099.14	099.57	12.80	0.00	100.52	107.69	91.90	0.00	100.51	104.67	101.25	102.28
19	13.30	0.00	099.15	099.37	12.80	0.00	100.16	105.42	93.60	0.00	103.70	104.58	101.12	102.16
20	13.30	0.00	099.03	098.45	14.30	0.00	100.12	104.34	93.70	0.00	102.54	103.54	101.04	102.18
21	13.30	0.00	098.90	098.26	12.70	0.00	100.23	109.14	92.90	0.00	102.40	102.62	100.99	101.92
22	13.30	0.00	099.54	098.09	12.90	0.00	100.51	106.34	91.40	0.00	101.72	102.75	100.88	101.73
23	13.80	0.00	099.56	098.10	12.50	0.00	100.36	103.49	69.40	0.00	101.30	102.52	100.83	101.46
24	13.40	0.00	099.85	098.04	12.60	0.00	100.12	102.60	58.00	0.00	101.54	101.21	100.44	101.46

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HOURLY OPERATIONAL REPORT

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DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.
1	1.40	0.00	104.55	?UNDEF	?UNDEF	?UNDEF	13.90	0.00	103.61	098.47	12.60	0.00	099.41	096.99
2	1.50	0.00	104.51	?UNDEF	?UNDEF	?UNDEF	13.80	0.00	103.03	098.29	12.60	0.00	099.54	096.82
3	1.40	0.00	104.32	?UNDEF	?UNDEF	?UNDEF	12.60	0.00	102.18	098.29	14.10	0.00	106.54	096.94
4	1.40	0.00	104.27	?UNDEF	?UNDEF	?UNDEF	12.10	0.00	102.17	098.01	12.60	0.00	099.49	096.91
5	1.40	0.00	104.26	?UNDEF	?UNDEF	?UNDEF	12.40	0.00	101.93	097.87	12.90	0.00	099.24	096.80
6	1.40	0.00	104.42	?UNDEF	?UNDEF	?UNDEF	12.20	0.00	101.90	097.45	12.70	0.00	099.21	096.77
7	1.40	0.00	104.34	?UNDEF	?UNDEF	?UNDEF	14.40	0.00	101.86	097.12	12.60	0.00	099.29	096.77
8	1.40	0.00	104.67	?UNDEF	?UNDEF	?UNDEF	14.50	0.00	101.98	097.10	12.70	0.00	099.06	096.58
9	1.40	0.00	105.11	?UNDEF	?UNDEF	?UNDEF	16.50	0.00	102.19	097.48	12.60	0.00	099.10	096.71
10	1.40	0.00	105.26	?UNDEF	?UNDEF	?UNDEF	16.80	0.00	101.63	097.72	12.80	0.00	099.10	096.68
11	1.40	0.00	105.96	?UNDEF	?UNDEF	?UNDEF	16.80	0.00	102.15	097.95	12.60	0.00	098.18	096.82
12	1.40	0.00	106.96	?UNDEF	?UNDEF	?UNDEF	16.80	0.00	102.27	098.77	12.60	0.00	097.63	096.96
13	1.40	0.00	107.25	?UNDEF	?UNDEF	?UNDEF	17.10	0.00	103.28	099.09	12.60	0.00	098.33	097.24
14	1.40	0.00	107.34	?UNDEF	?UNDEF	?UNDEF	16.80	0.00	103.47	099.29	12.60	0.00	098.62	097.08
15	1.40	0.00	107.23	?UNDEF	?UNDEF	?UNDEF	16.60	0.00	101.75	099.60	12.80	0.00	098.50	097.30
16	1.40	0.00	107.27	?UNDEF	?UNDEF	?UNDEF	16.80	0.00	100.82	099.58	14.00	0.00	098.66	097.29
17	1.40	0.00	107.14	?UNDEF	?UNDEF	?UNDEF	16.60	0.00	100.57	099.23	12.60	0.00	098.93	097.30
18	1.40	0.00	106.33	?UNDEF	?UNDEF	?UNDEF	16.60	0.00	099.88	098.39	14.10	0.00	099.32	097.31
19	1.40	0.00	107.14	?UNDEF	?UNDEF	?UNDEF	18.30	0.00	100.26	098.23	12.60	0.00	099.67	096.99
20	1.40	0.00	104.87	?UNDEF	?UNDEF	?UNDEF	19.00	0.00	100.05	097.76	12.80	0.00	098.57	096.96
21	1.40	0.00	104.38	?UNDEF	?UNDEF	?UNDEF	17.60	0.00	099.64	097.73	12.40	0.00	097.72	096.90
22	1.40	0.00	104.30	?UNDEF	?UNDEF	?UNDEF	19.00	0.00	099.45	097.72	12.10	0.00	097.43	096.60
23	1.40	0.00	104.35	?UNDEF	?UNDEF	?UNDEF	17.40	0.00	099.01	097.74	12.10	0.00	097.10	096.40
24	1.40	0.00	104.28	?UNDEF	?UNDEF	?UNDEF	16.90	0.00	098.95	097.48	12.10	0.00	097.38	096.28
LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT
1	13.50	0.00	100.88	098.51	12.90	0.00	100.29	101.81	71.90	0.00	103.80	104.18	101.22	100.82
2	13.40	0.00	100.84	098.30	12.80	0.00	099.85	101.23	65.30	0.00	103.08	104.15	100.95	100.51
3	13.40	0.00	100.84	098.13	14.40	0.00	099.44	100.81	61.50	0.00	103.50	103.46	100.78	100.37
4	13.30	0.00	100.84	097.98	12.80	0.00	099.32	100.53	66.70	0.00	103.22	103.72	100.89	100.27
5	13.40	0.00	100.87	097.95	13.10	0.00	099.13	100.21	87.80	0.00	102.67	103.71	100.74	100.08
6	13.40	0.00	100.84	097.79	13.00	0.00	099.08	099.93	96.70	0.00	100.27	103.80	101.14	099.93
7	13.20	0.00	100.68	097.72	12.90	0.00	098.80	099.81	97.00	0.00	100.62	104.16	100.97	099.76
8	15.10	0.00	100.25	098.27	12.70	0.00	099.01	100.67	97.50	0.00	100.48	104.01	100.79	099.71
9	13.30	0.00	099.95	099.10	14.20	0.00	098.84	099.95	96.80	0.00	100.25	103.93	100.88	099.67
10	13.30	0.00	099.60	098.60	12.80	0.00	098.96	099.87	96.10	0.00	101.21	102.99	101.10	099.75
11	13.40	0.00	099.33	099.19	13.20	0.00	099.16	100.40	96.70	0.00	101.05	102.93	101.35	099.99
12	13.50	0.00	099.18	099.76	13.00	0.00	099.17	107.30	97.50	0.00	100.66	103.37	101.54	100.24
13	15.00	0.00	099.06	100.16	13.10	0.00	099.17	110.76	102.40	0.00	105.43	103.16	101.69	100.69
14	13.60	0.00	098.97	100.49	14.50	0.00	098.81	109.32	102.00	0.00	105.35	102.94	101.88	101.17
15	13.50	0.00	098.89	101.40	13.00	0.00	098.45	109.66	101.60	0.00	105.19	102.74	101.83	101.49
16	13.40	0.00	098.88	100.76	13.20	0.00	098.25	113.54	101.70	0.00	105.05	102.77	101.59	101.62
17	13.60	0.00	098.89	100.08	14.50	0.00	098.37	115.10	102.00	0.00	104.86	101.85	101.24	101.49
18	15.10	0.00	098.90	099.29	12.90	0.00	098.39	112.72	102.00	0.00	104.56	101.73	100.83	101.37
19	13.50	0.00	098.72	098.64	14.30	0.00	098.23	107.50	101.10	0.00	103.25	101.85	100.66	101.20
20	13.40	0.00	098.73	097.87	13.00	0.00	098.19	103.19	101.70	0.00	101.86	101.69	100.42	101.04
21	15.10	0.00	098.66	097.38	12.70	0.00	098.04	103.07	80.70	0.00	103.26	100.96	100.05	100.65
22	13.40	0.00	098.81	098.33	12.60	0.00	098.02	101.82	79.20	0.00	101.80	100.39	099.91	100.45
23	13.50	0.00	099.01	097.43	12.70	0.00	098.63	100.68	68.70	0.00	100.91	100.46	099.83	100.21
24	13.60	0.00	098.98	097.01	14.10	0.00	099.51	100.64	68.20	0.00	101.06	099.60	099.65	100.21

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WALLA WALLA DISTRICT HYDRO PROJECTS
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DWRSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	
1	1.50	0.00	103.96	?UNDEF	?UNDEF	?UNDEF	.80	0.00	096.86	094.75	.50	0.00	097.81	094.61	
2	1.40	0.00	103.96	?UNDEF	?UNDEF	?UNDEF	.30	0.00	096.33	094.73	.50	0.00	097.67	094.48	
3	1.40	0.00	103.96	?UNDEF	?UNDEF	?UNDEF	.30	0.00	096.06	095.26	2.00	0.00	097.82	094.98	
4	1.40	0.00	104.23	?UNDEF	?UNDEF	?UNDEF	.30	0.00	096.35	095.68	2.40	0.00	097.66	094.95	
5	1.40	0.00	104.17	?UNDEF	?UNDEF	?UNDEF	11.90	0.00	096.88	096.33	12.50	0.00	097.68	095.23	
6	1.40	0.00	104.14	?UNDEF	?UNDEF	?UNDEF	12.50	0.00	097.57	096.21	13.70	0.00	097.67	095.48	
7	1.50	0.00	104.11	?UNDEF	?UNDEF	?UNDEF	12.30	0.00	097.82	096.18	12.20	0.00	097.53	095.61	
8	1.40	0.00	104.13	?UNDEF	?UNDEF	?UNDEF	12.30	0.00	098.08	096.34	12.20	0.00	097.67	095.63	
9	1.40	0.00	104.28	?UNDEF	?UNDEF	?UNDEF	17.20	0.00	098.52	096.62	13.90	0.00	097.56	095.77	
10	1.40	0.00	104.74	?UNDEF	?UNDEF	?UNDEF	15.90	0.00	098.92	097.29	12.10	0.00	097.44	096.21	
11	1.50	0.00	105.65	?UNDEF	?UNDEF	?UNDEF	13.30	0.00	099.29	097.63	12.10	0.00	097.79	096.29	
12	1.40	0.00	106.77	?UNDEF	?UNDEF	?UNDEF	13.00	0.00	099.74	097.84	12.80	0.00	098.23	096.74	
13	1.50	0.00	107.29	?UNDEF	?UNDEF	?UNDEF	14.20	0.00	100.63	098.17	14.20	0.00	098.73	096.84	
14	1.50	0.00	107.54	?UNDEF	?UNDEF	?UNDEF	12.80	0.00	100.98	099.49	15.60	0.00	098.55	097.21	
15	1.40	0.00	107.81	?UNDEF	?UNDEF	?UNDEF	13.80	0.00	102.67	099.54	14.00	0.00	099.01	097.25	
16	1.40	0.00	107.74	?UNDEF	?UNDEF	?UNDEF	7.50	0.00	104.35	099.60	15.50	0.00	099.77	097.72	
17	1.50	0.00	107.41	?UNDEF	?UNDEF	?UNDEF	12.70	0.00	103.43	101.13	14.00	0.00	100.86	097.63	
18	1.50	0.00	106.59	?UNDEF	?UNDEF	?UNDEF	13.10	0.00	102.75	102.18	15.80	0.00	100.91	097.88	
19	1.40	0.00	107.41	?UNDEF	?UNDEF	?UNDEF	15.50	0.00	102.65	101.25	14.00	0.00	100.28	097.60	
20	1.40	0.00	104.71	?UNDEF	?UNDEF	?UNDEF	13.80	0.00	103.15	100.04	14.00	0.00	100.03	097.47	
21	1.40	0.00	104.49	?UNDEF	?UNDEF	?UNDEF	13.90	0.00	103.10	099.46	12.80	0.00	099.99	097.24	
22	1.40	0.00	104.58	?UNDEF	?UNDEF	?UNDEF	15.60	0.00	102.94	098.63	12.60	0.00	099.92	097.24	
23	1.40	0.00	104.68	?UNDEF	?UNDEF	?UNDEF	13.90	0.00	102.06	098.68	12.90	0.00	100.31	097.20	
24	1.40	0.00	104.61	?UNDEF	?UNDEF	?UNDEF	14.10	0.00	103.79	098.66	12.60	0.00	099.70	096.99	
LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT	
1	1.00	0.00	098.12	097.10	11.00	0.00	098.91	099.67	61.30	0.00	102.52	104.10	101.05	099.75	
2	.70	0.00	098.05	096.79	9.50	0.00	098.92	100.19	60.00	0.00	102.54	104.06	100.89	099.75	
3	2.20	0.00	098.09	096.83	9.50	0.00	098.91	099.39	60.00	0.00	102.15	103.28	101.00	099.72	
4	2.20	0.00	097.93	096.53	9.50	0.00	098.64	099.23	60.50	0.00	101.89	102.79	100.88	099.72	
5	13.30	0.00	097.93	097.69	9.70	0.00	098.64	099.22	60.80	0.00	101.60	103.52	100.89	099.58	
6	14.90	0.00	097.90	097.38	12.90	0.00	098.64	099.50	78.80	0.00	102.66	103.53	101.00	099.30	
7	13.60	0.00	097.93	097.40	11.40	0.00	098.23	100.41	79.70	0.00	103.03	102.83	101.09	099.15	
8	13.90	0.00	097.90	098.03	12.90	0.00	097.96	099.75	84.70	0.00	102.00	102.60	100.96	099.03	
9	13.60	0.00	097.83	097.69	12.80	0.00	097.84	100.12	84.70	0.00	102.61	103.22	101.01	098.89	
10	13.50	0.00	097.86	098.04	11.50	0.00	098.24	101.49	78.30	0.00	102.28	102.19	101.13	099.05	
11	13.60	0.00	098.29	098.78	11.30	0.00	098.55	100.84	78.40	0.00	100.99	102.68	101.31	099.36	
12	15.10	0.00	098.66	099.33	12.90	0.00	098.89	101.80	78.20	0.00	101.46	102.07	101.84	099.85	
13	13.80	0.00	099.14	100.01	11.40	0.00	098.99	102.60	78.40	0.00	102.63	102.58	102.05	100.43	
14	13.50	0.00	099.07	100.68	11.10	0.00	099.05	103.81	78.20	0.00	103.21	102.52	102.24	101.09	
15	15.00	0.00	099.26	101.11	11.30	0.00	099.28	108.34	84.20	0.00	103.16	103.10	102.50	101.69	
16	13.50	0.00	099.46	101.75	11.30	0.00	099.71	113.36	84.90	0.00	101.89	103.05	103.02	102.01	
17	13.60	0.00	099.77	100.99	11.40	0.00	100.12	112.22	85.60	0.00	104.32	103.75	103.31	102.45	
18	13.50	0.00	099.64	100.16	11.40	0.00	100.25	106.22	115.90	0.00	103.48	105.33	103.46	102.36	
19	13.70	0.00	100.01	099.51	11.40	0.00	100.27	103.55	118.20	0.00	103.48	106.39	103.35	102.20	
20	13.40	0.00	100.40	098.88	11.60	0.00	100.12	106.87	118.20	0.00	102.76	106.27	102.92	101.95	
21	13.40	0.00	101.01	098.60	12.70	0.00	100.37	110.84	116.50	0.00	103.86	105.71	102.51	101.76	
22	14.80	0.00	101.13	098.56	12.60	0.00	100.49	107.92	115.20	0.00	104.24	105.52	102.20	101.49	
23	13.40	0.00	100.99	099.67	12.60	0.00	100.21	104.44	100.90	0.00	104.63	104.94	101.88	101.30	
24	13.30	0.00	100.94	099.20	13.00	0.00	100.43	102.63	89.90	0.00	103.91	104.74	101.42	101.30	

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DWRSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	
1	1.50	0.00	104.48	?UNDEF	?UNDEF	?UNDEF	15.60	0.00	097.76	097.01	12.30	0.00	098.21	095.90	
2	1.40	0.00	104.29	?UNDEF	?UNDEF	?UNDEF	16.80	0.00	097.84	096.46	14.00	0.00	097.90	096.00	
3	1.40	0.00	104.11	?UNDEF	?UNDEF	?UNDEF	16.90	0.00	097.80	096.02	12.20	0.00	098.00	095.85	
4	1.40	0.00	104.33	?UNDEF	?UNDEF	?UNDEF	18.70	0.00	097.99	095.72	12.20	0.00	098.12	095.95	
5	1.40	0.00	104.39	?UNDEF	?UNDEF	?UNDEF	20.20	0.00	098.02	095.49	12.40	0.00	098.16	095.98	
6	1.40	0.00	104.27	?UNDEF	?UNDEF	?UNDEF	19.20	0.00	097.83	095.17	13.70	0.00	098.22	095.91	
7	1.40	0.00	104.19	?UNDEF	?UNDEF	?UNDEF	19.00	0.00	097.83	095.12	13.90	0.00	098.31	095.87	
8	1.40	0.00	104.41	?UNDEF	?UNDEF	?UNDEF	15.60	0.00	097.65	095.24	12.20	0.00	098.11	095.82	
9	1.40	0.00	104.92	?UNDEF	?UNDEF	?UNDEF	15.40	0.00	097.34	095.70	12.20	0.00	097.85	095.92	
10	1.40	0.00	105.23	?UNDEF	?UNDEF	?UNDEF	15.10	0.00	097.31	096.06	12.20	0.00	097.79	095.91	
11	1.40	0.00	105.90	?UNDEF	?UNDEF	?UNDEF	15.00	0.00	097.53	096.45	12.20	0.00	097.81	095.77	
12	1.40	0.00	107.13	?UNDEF	?UNDEF	?UNDEF	15.20	0.00	097.38	096.86	12.40	0.00	097.75	095.73	
13	1.40	0.00	107.82	?UNDEF	?UNDEF	?UNDEF	15.20	0.00	097.85	097.01	12.20	0.00	097.63	095.76	
14	1.40	0.00	107.95	?UNDEF	?UNDEF	?UNDEF	15.30	0.00	097.45	097.32	12.20	0.00	097.28	095.80	
15	1.40	0.00	107.86	?UNDEF	?UNDEF	?UNDEF	15.40	0.00	097.72	097.32	12.20	0.00	097.19	095.82	
16	1.40	0.00	107.49	?UNDEF	?UNDEF	?UNDEF	15.30	0.00	098.01	096.93	12.10	0.00	097.58	095.57	
17	1.40	0.00	107.08	?UNDEF	?UNDEF	?UNDEF	15.30	0.00	097.89	096.55	12.40	0.00	097.75	095.46	
18	1.50	0.00	106.40	?UNDEF	?UNDEF	?UNDEF	19.50	0.00	098.02	096.15	12.10	0.00	097.88	095.19	
19	1.40	0.00	107.08	?UNDEF	?UNDEF	?UNDEF	20.10	0.00	097.24	096.02	12.20	0.00	097.88	095.05	
20	1.40	0.00	104.41	?UNDEF	?UNDEF	?UNDEF	21.60	0.00	097.75	095.98	12.20	0.00	097.85	094.77	
21	1.40	0.00	104.18	?UNDEF	?UNDEF	?UNDEF	13.20	0.00	097.31	096.37	12.10	0.00	097.83	094.60	
22	1.40	0.00	104.20	?UNDEF	?UNDEF	?UNDEF	12.80	0.00	098.01	096.11	12.40	0.00	097.70	094.60	
23	1.40	0.00	104.16	?UNDEF	?UNDEF	?UNDEF	13.00	0.00	097.96	095.93	12.10	0.00	097.83	094.63	
24	1.40	0.00	104.01	?UNDEF	?UNDEF	?UNDEF	12.80	0.00	097.52	095.78	13.10	0.00	097.81	094.74	
LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT			
1	15.10	0.00	098.18	12.70	0.00	097.86	63.60	0.00	102.63	102.85	101.26	?UNDEF			
2	13.80	0.00	098.14	13.00	0.00	097.82	77.70	0.00	102.87	102.14	101.17	101.21			
3	13.90	0.00	098.14	12.70	0.00	097.95	79.90	0.00	103.11	102.14	101.20	100.90			
4	13.90	0.00	098.07	14.30	0.00	097.93	88.60	0.00	104.54	102.22	100.88	100.45			
5	14.30	0.00	098.02	14.20	0.00	097.85	91.80	0.00	104.71	102.02	100.68	100.15			
6	14.20	0.00	097.91	12.70	0.00	097.80	77.40	0.00	104.27	101.83	100.76	099.80			
7	13.80	0.00	097.87	13.00	0.00	097.34	77.90	0.00	103.61	101.34	100.56	099.50			
8	13.90	0.00	097.83	12.70	0.00	097.15	75.90	0.00	102.82	101.74	100.52	099.16			
9	13.90	0.00	097.83	12.90	0.00	097.11	68.60	0.00	102.59	100.83	100.45	099.01			
10	13.90	0.00	097.76	12.80	0.00	097.04	68.80	0.00	101.96	100.16	100.83	099.06			
11	15.50	0.00	097.73	12.80	0.00	096.90	70.00	0.00	102.09	101.99	101.18	099.31			
12	14.20	0.00	097.80	13.00	0.00	097.17	68.50	0.00	101.59	101.36	101.49	099.63			
13	15.40	0.00	097.52	12.80	0.00	097.62	68.30	0.00	101.59	101.91	101.64	100.16			
14	13.90	0.00	097.41	14.30	0.00	097.79	70.10	0.00	101.77	102.25	101.82	100.73			
15	13.90	0.00	097.30	14.30	0.00	097.92	67.80	0.00	102.34	102.31	102.18	101.31			
16	13.90	0.00	097.58	14.30	0.00	097.94	68.50	0.00	102.53	101.79	102.60	101.75			
17	13.90	0.00	097.63	14.60	0.00	098.26	67.80	0.00	103.10	102.10	102.79	102.02			
18	13.80	0.00	097.59	17.20	0.00	098.28	91.60	0.00	104.06	101.34	102.41	102.07			
19	13.50	0.00	097.61	19.70	0.00	098.56	102.30	0.00	104.60	101.87	101.60	101.65			
20	13.40	0.00	097.71	21.20	0.00	098.69	97.60	0.00	104.03	101.74	101.09	101.38			
21	13.40	0.00	097.73	11.70	0.00	098.67	88.80	0.00	104.35	101.69	100.96	100.97			
22	13.30	0.00	097.70	11.30	0.00	098.71	73.70	0.00	103.76	101.08	100.80	100.42			
23	13.50	0.00	097.94	11.60	0.00	098.76	59.90	0.00	103.23	101.42	100.93	100.15			
24	15.20	0.00	098.10	11.30	0.00	098.92	58.80	0.00	100.26	103.69	100.75	100.15			

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WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

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	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.40	0.00	105.05	097.04	?UNDEF	?UNDEF	13.40	0.00	102.74	095.58	12.50	0.00	102.57	097.55
2	1.40	0.00	104.94	097.28	?UNDEF	?UNDEF	11.90	0.00	102.27	096.03	12.30	0.00	102.08	097.36
3	1.40	0.00	104.87	097.31	?UNDEF	?UNDEF	13.30	0.00	101.29	095.90	12.30	0.00	102.11	097.09
4	1.40	0.00	104.83	097.51	?UNDEF	?UNDEF	11.60	0.00	099.39	096.05	13.80	0.00	101.93	097.09
5	1.50	0.00	104.80	097.34	?UNDEF	?UNDEF	11.60	0.00	097.74	095.74	12.30	0.00	101.80	096.93
6	1.50	0.00	104.66	097.47	?UNDEF	?UNDEF	11.60	0.00	096.89	095.39	14.00	0.00	101.70	096.87
7	1.40	0.00	104.44	097.23	?UNDEF	?UNDEF	11.90	0.00	096.77	095.16	12.30	0.00	101.54	096.75
8	1.40	0.00	104.55	097.61	?UNDEF	?UNDEF	12.90	0.00	097.27	095.38	12.30	0.00	101.27	096.58
9	1.40	0.00	104.82	098.81	?UNDEF	?UNDEF	13.10	0.00	097.70	096.09	12.30	0.00	101.17	096.75
10	1.50	0.00	105.28	?UNDEF	?UNDEF	?UNDEF	14.10	0.00	097.70	097.04	12.30	0.00	101.24	096.76
11	1.40	0.00	105.91	?UNDEF	?UNDEF	?UNDEF	15.80	0.00	098.68	097.92	12.50	0.00	100.83	096.77
12	1.40	0.00	106.96	?UNDEF	?UNDEF	?UNDEF	14.10	0.00	098.42	098.06	12.30	0.00	099.81	096.69
13	1.40	0.00	107.70	?UNDEF	?UNDEF	?UNDEF	14.30	0.00	098.11	098.35	12.30	0.00	099.18	096.73
14	1.50	0.00	107.88	?UNDEF	?UNDEF	?UNDEF	14.10	0.00	097.76	098.32	12.30	0.00	098.99	096.80
15	1.50	0.00	108.15	?UNDEF	?UNDEF	?UNDEF	14.30	0.00	098.64	098.25	12.20	0.00	098.78	096.83
16	1.50	0.00	106.97	?UNDEF	?UNDEF	?UNDEF	15.10	0.00	098.09	098.21	12.50	0.00	098.65	096.74
17	1.40	0.00	106.85	?UNDEF	?UNDEF	?UNDEF	18.50	0.00	098.38	097.57	12.30	0.00	098.25	096.77
18	1.40	0.00	106.70	?UNDEF	?UNDEF	?UNDEF	15.70	0.00	097.88	096.79	12.20	0.00	098.32	096.66
19	1.40	0.00	106.85	?UNDEF	?UNDEF	?UNDEF	15.40	0.00	098.69	096.70	12.30	0.00	098.22	096.74
20	1.40	0.00	105.17	?UNDEF	?UNDEF	?UNDEF	15.60	0.00	099.23	096.56	13.80	0.00	098.17	096.47
21	1.40	0.00	104.57	?UNDEF	?UNDEF	?UNDEF	15.40	0.00	099.01	096.30	14.00	0.00	098.46	096.32
22	1.40	0.00	104.38	?UNDEF	?UNDEF	?UNDEF	15.30	0.00	098.47	096.21	12.20	0.00	098.21	096.18
23	1.40	0.00	104.51	?UNDEF	?UNDEF	?UNDEF	15.70	0.00	098.03	096.03	12.30	0.00	098.52	095.96
24	1.40	0.00	104.61	?UNDEF	?UNDEF	?UNDEF	19.10	0.00	097.96	096.05	12.30	0.00	098.68	095.99

HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO	
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	13.40	0.00	098.50	096.65	12.40	0.00	096.83	098.40	62.40	0.00	105.10	101.18	100.78	101.26
2	13.40	0.00	098.59	096.76	12.50	0.00	096.45	098.24	62.90	0.00	105.49	101.13	100.62	101.26
3	13.40	0.00	098.46	096.58	12.60	0.00	096.31	098.25	62.90	0.00	104.37	100.98	100.61	101.26
4	13.60	0.00	098.44	096.60	12.10	0.00	096.29	098.28	62.90	0.00	104.52	101.10	100.47	101.30
5	13.40	0.00	098.42	096.40	11.90	0.00	096.70	098.11	63.60	0.00	104.08	100.98	100.29	100.98
6	13.50	0.00	098.39	096.37	13.20	0.00	096.81	098.08	66.50	0.00	103.65	101.37	100.28	100.72
7	13.50	0.00	098.34	096.19	12.80	0.00	096.66	098.08	77.70	0.00	102.95	101.30	100.51	100.55
8	15.20	0.00	098.35	096.16	12.80	0.00	097.02	098.13	70.40	0.00	103.06	101.14	100.59	100.35
9	13.80	0.00	098.34	097.82	12.80	0.00	096.85	098.36	69.50	0.00	102.95	101.30	100.91	100.37
10	14.00	0.00	098.34	097.36	12.80	0.00	096.73	098.90	69.00	0.00	103.33	102.98	101.28	100.49
11	15.40	0.00	098.38	097.96	13.10	0.00	096.61	099.05	68.80	0.00	103.38	104.89	101.46	100.77
12	13.80	0.00	098.42	098.61	14.30	0.00	096.49	099.19	69.90	0.00	104.22	103.55	101.70	100.96
13	13.80	0.00	098.20	098.88	12.80	0.00	096.17	099.49	69.30	0.00	103.79	104.01	102.02	100.93
14	13.70	0.00	098.15	098.85	14.30	0.00	096.10	100.08	70.40	0.00	103.22	102.63	102.27	?UNDEF
15	13.70	0.00	098.19	098.83	12.80	0.00	096.72	099.93	69.00	0.00	103.97	102.45	102.32	?UNDEF
16	13.80	0.00	098.19	098.47	14.50	0.00	097.00	100.78	68.90	0.00	104.25	104.23	102.25	?UNDEF
17	14.00	0.00	098.25	098.38	12.80	0.00	097.86	100.12	69.10	0.00	104.20	103.60	102.14	?UNDEF
18	13.70	0.00	098.28	097.66	12.80	0.00	098.01	099.72	68.80	0.00	104.77	103.11	102.18	?UNDEF
19	15.20	0.00	098.44	097.11	14.30	0.00	098.74	099.85	69.60	0.00	104.80	103.94	102.24	?UNDEF
20	13.80	0.00	098.59	097.37	12.80	0.00	098.35	099.91	71.10	0.00	104.48	103.74	102.17	?UNDEF
21	13.70	0.00	098.45	096.75	13.00	0.00	098.01	099.02	69.00	0.00	105.35	103.51	102.25	?UNDEF
22	13.70	0.00	098.23	096.35	12.70	0.00	098.18	098.63	64.30	0.00	104.50	103.47	102.19	?UNDEF
23	14.10	0.00	098.32	096.53	12.80	0.00	098.38	099.51	63.60	0.00	104.93	104.02	101.85	?UNDEF
24	13.80	0.00	098.28	096.44	12.70	0.00	098.20	098.79	63.30	0.00	104.48	103.06	101.49	?UNDEF

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WALLA WALLA DISTRICT HYDRO PROJECTS
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HOUR	DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
	TOTAL DISCH. KCFS	SPILL KCFS	GAS TAILW.	%SAT	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT	TAILW.
1	1.50	0.00	104.23	096.34	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	103.34	095.00	14.10	0.00	102.86	097.35	
2	1.40	0.00	103.86	095.98	?UNDEF	?UNDEF	?UNDEF	14.20	0.00	102.20	094.76	15.60	0.00	102.98	097.48	
3	1.50	0.00	103.68	096.08	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	101.83	094.73	14.10	0.00	102.81	097.25	
4	1.40	0.00	103.53	096.16	?UNDEF	?UNDEF	?UNDEF	14.20	0.00	102.42	094.86	14.10	0.00	102.65	097.25	
5	1.50	0.00	103.46	095.97	?UNDEF	?UNDEF	?UNDEF	13.50	0.00	102.60	095.09	14.40	0.00	102.19	097.25	
6	1.40	0.00	103.39	095.84	?UNDEF	?UNDEF	?UNDEF	13.70	0.00	101.47	095.42	14.10	0.00	102.34	097.05	
7	1.40	0.00	103.42	095.79	?UNDEF	?UNDEF	?UNDEF	12.90	0.00	102.25	095.37	13.90	0.00	102.08	097.03	
8	1.40	0.00	103.45	097.10	?UNDEF	?UNDEF	?UNDEF	11.50	0.00	102.33	095.72	13.00	0.00	101.62	097.10	
9	1.50	0.00	104.04	098.98	?UNDEF	?UNDEF	?UNDEF	11.50	0.00	103.38	096.02	12.90	0.00	101.76	097.37	
10	1.40	0.00	104.75	099.44	?UNDEF	?UNDEF	?UNDEF	11.40	0.00	104.09	096.17	13.20	0.00	101.86	097.59	
11	1.50	0.00	105.38	100.61	?UNDEF	?UNDEF	?UNDEF	11.70	0.00	104.84	096.63	13.20	0.00	102.21	097.65	
12	1.40	0.00	106.03	101.13	?UNDEF	?UNDEF	?UNDEF	11.50	0.00	105.60	096.96	13.00	0.00	101.92	097.87	
13	1.50	0.00	107.90	102.58	?UNDEF	?UNDEF	?UNDEF	11.50	0.00	107.15	096.74	13.00	0.00	102.15	097.96	
14	1.40	0.00	108.27	102.71	?UNDEF	?UNDEF	?UNDEF	11.50	0.00	108.56	097.09	14.50	0.00	103.00	098.24	
15	1.40	0.00	108.39	103.35	?UNDEF	?UNDEF	?UNDEF	11.80	0.00	110.00	097.55	13.30	0.00	103.49	098.62	
16	1.40	0.00	108.31	102.60	?UNDEF	?UNDEF	?UNDEF	11.60	0.00	108.02	097.59	13.10	0.00	104.48	098.67	
17	1.50	0.00	108.10	101.98	?UNDEF	?UNDEF	?UNDEF	11.60	0.00	105.91	097.37	13.00	0.00	104.27	098.90	
18	1.40	0.00	107.03	100.97	?UNDEF	?UNDEF	?UNDEF	13.30	0.00	104.98	096.30	12.30	0.00	103.76	098.72	
19	1.40	0.00	108.10	100.00	?UNDEF	?UNDEF	?UNDEF	11.60	0.00	104.83	096.47	12.30	0.00	103.43	098.44	
20	1.40	0.00	105.55	099.90	?UNDEF	?UNDEF	?UNDEF	11.80	0.00	103.95	095.71	12.50	0.00	103.82	098.03	
21	1.40	0.00	105.21	099.32	?UNDEF	?UNDEF	?UNDEF	11.60	0.00	101.77	095.31	13.80	0.00	103.66	098.00	
22	1.40	0.00	105.04	098.68	?UNDEF	?UNDEF	?UNDEF	13.30	0.00	101.22	095.17	12.30	0.00	103.49	097.71	
23	1.40	0.00	104.96	098.42	?UNDEF	?UNDEF	?UNDEF	11.60	0.00	101.46	095.54	12.30	0.00	103.17	097.48	
24	1.40	0.00	105.09	097.95	?UNDEF	?UNDEF	?UNDEF	11.70	0.00	101.57	095.64	13.80	0.00	103.12	097.59	
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT	TOTAL DISCH KCFS	GAS % SAT	
1	14.20	0.00	098.55	096.72	12.60	0.00	097.95	098.26	64.70	0.00	104.58	102.92	101.32	101.09		
2	14.10	0.00	098.54	096.58	12.60	0.00	098.05	098.24	61.00	0.00	104.52	102.58	101.03	100.92		
3	16.00	0.00	098.55	096.56	12.60	0.00	097.59	098.48	57.90	0.00	105.44	102.42	100.98	100.87		
4	14.40	0.00	098.50	096.67	12.40	0.00	096.91	098.61	61.10	0.00	105.69	101.88	100.96	100.67		
5	14.40	0.00	098.50	096.80	12.40	0.00	096.89	098.59	64.60	0.00	105.57	102.14	101.04	100.53		
6	14.40	0.00	098.43	096.46	13.80	0.00	096.99	098.55	68.80	0.00	105.46	103.57	101.03	100.52		
7	14.40	0.00	098.37	096.38	12.30	0.00	097.08	098.51	77.40	0.00	104.59	103.69	100.84	100.59		
8	14.40	0.00	098.33	096.34	12.60	0.00	096.90	098.59	76.90	0.00	105.26	104.15	101.04	100.57		
9	14.60	0.00	098.30	096.75	14.10	0.00	097.41	098.56	78.20	0.00	105.27	104.37	101.32	100.48		
10	14.30	0.00	098.30	097.07	12.80	0.00	097.77	099.02	78.60	0.00	105.20	104.60	101.29	100.72		
11	17.50	0.00	098.46	098.12	12.60	0.00	097.93	099.80	80.20	0.00	103.80	103.87	101.62	100.92		
12	14.90	0.00	098.51	099.07	14.10	0.00	097.98	099.35	80.40	0.00	103.89	104.62	101.71	101.25		
13	14.90	0.00	098.62	099.17	12.50	0.00	097.94	100.20	79.70	0.00	103.84	103.12	102.06	101.61		
14	14.90	0.00	098.67	099.26	12.50	0.00	098.15	100.75	78.40	0.00	103.91	103.08	102.28	102.07		
15	14.90	0.00	098.75	099.26	12.70	0.00	097.93	099.95	70.40	0.00	102.25	104.87	102.34	102.00		
16	14.20	0.00	098.76	099.09	12.50	0.00	097.85	100.80	69.70	0.00	101.51	105.83	102.25	101.92		
17	15.60	0.00	098.55	098.99	12.70	0.00	098.03	100.24	69.70	0.00	101.04	104.45	102.19	101.98		
18	13.40	0.00	098.60	098.98	14.20	0.00	098.54	099.93	69.60	0.00	104.46	104.21	102.14	102.03		
19	13.40	0.00	098.59	098.10	14.10	0.00	098.77	099.63	69.80	0.00	104.41	104.21	101.98	102.07		
20	13.40	0.00	098.44	097.37	12.90	0.00	098.73	099.20	66.40	0.00	101.09	103.30	101.67	102.03		
21	15.20	0.00	098.43	097.02	12.80	0.00	098.90	098.84	65.90	0.00	103.15	102.68	101.39	101.88		
22	13.40	0.00	098.35	097.58	12.70	0.00	098.69	099.43	65.20	0.00	104.67	102.45	101.32	101.53		
23	13.40	0.00	098.28	097.90	12.30	0.00	098.22	099.49	64.70	0.00	106.12	101.21	101.28	101.53		
24	13.50	0.00	098.38	096.83	12.30	0.00	097.38	098.55	64.70	0.00	105.89	101.17	100.94	101.53		

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DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.
1	1.40	0.00	103.76	097.37	?UNDEF	?UNDEF	12.60	0.00	102.71	095.68	14.20	0.00	104.70	097.84
2	1.50	0.00	103.57	097.24	?UNDEF	?UNDEF	12.60	0.00	101.99	095.53	14.20	0.00	105.14	097.84
3	1.40	0.00	103.52	097.06	?UNDEF	?UNDEF	12.50	0.00	101.41	095.47	14.20	0.00	105.57	097.86
4	1.50	0.00	103.48	097.31	?UNDEF	?UNDEF	12.70	0.00	101.91	095.44	14.50	0.00	104.82	097.80
5	1.40	0.00	103.56	096.86	?UNDEF	?UNDEF	12.50	0.00	101.91	095.44	14.20	0.00	103.87	097.66
6	1.50	0.00	103.42	096.71	?UNDEF	?UNDEF	12.50	0.00	101.86	095.34	14.20	0.00	103.68	097.57
7	1.40	0.00	103.29	096.52	?UNDEF	?UNDEF	12.50	0.00	101.82	095.45	14.10	0.00	103.36	097.58
8	1.50	0.00	103.37	097.05	?UNDEF	?UNDEF	14.60	0.00	102.05	095.87	12.60	0.00	103.04	097.53
9	1.40	0.00	103.76	099.16	?UNDEF	?UNDEF	14.80	0.00	102.44	096.37	12.70	0.00	103.55	097.67
10	1.50	0.00	104.33	100.54	?UNDEF	?UNDEF	14.30	0.00	102.98	096.92	12.50	0.00	103.83	097.63
11	1.40	0.00	105.06	101.69	?UNDEF	?UNDEF	14.00	0.00	102.86	097.21	12.30	0.00	103.75	097.65
12	1.50	0.00	105.69	102.95	?UNDEF	?UNDEF	12.90	0.00	103.31	097.36	13.70	0.00	103.17	097.93
13	1.40	0.00	106.15	104.22	?UNDEF	?UNDEF	14.60	0.00	105.81	097.67	12.30	0.00	102.97	097.95
14	1.50	0.00	106.67	105.12	?UNDEF	?UNDEF	12.90	0.00	107.08	098.44	12.50	0.00	103.15	098.13
15	1.40	0.00	106.83	106.05	?UNDEF	?UNDEF	13.10	0.00	104.86	097.80	12.30	0.00	102.92	098.19
16	1.50	0.00	107.22	104.17	?UNDEF	?UNDEF	12.90	0.00	104.36	097.57	12.30	0.00	103.22	098.21
17	1.40	0.00	107.17	102.96	?UNDEF	?UNDEF	12.90	0.00	103.82	096.90	12.30	0.00	103.28	098.39
18	1.50	0.00	106.53	102.10	?UNDEF	?UNDEF	11.70	0.00	102.84	096.22	12.70	0.00	104.64	098.36
19	1.40	0.00	107.17	099.71	?UNDEF	?UNDEF	12.90	0.00	101.45	095.51	14.30	0.00	104.69	098.21
20	1.50	0.00	104.70	098.53	?UNDEF	?UNDEF	16.00	0.00	100.96	095.31	14.10	0.00	103.78	098.03
21	1.50	0.00	104.19	097.72	?UNDEF	?UNDEF	14.90	0.00	100.23	095.54	14.10	0.00	102.83	097.89
22	1.40	0.00	103.92	097.43	?UNDEF	?UNDEF	14.40	0.00	101.04	095.78	14.10	0.00	102.58	097.73
23	1.40	0.00	104.07	097.01	?UNDEF	?UNDEF	14.40	0.00	102.11	095.50	14.10	0.00	102.27	097.68
24	1.40	0.00	104.28	096.70	?UNDEF	?UNDEF	14.40	0.00	102.90	095.23	15.80	0.00	102.73	097.49
LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT
1	15.40	0.00	099.45	097.97	19.70	0.00	102.07	099.29	57.60	0.00	105.16	103.37	101.52	101.96
2	15.50	0.00	099.29	097.82	18.30	0.00	102.13	099.28	57.70	0.00	104.91	103.03	101.63	?UNDEF
3	15.20	0.00	099.19	097.68	18.50	0.00	101.06	099.24	57.60	0.00	104.91	103.49	101.51	?UNDEF
4	13.90	0.00	099.04	098.73	18.20	0.00	100.64	099.09	57.50	0.00	104.81	103.63	101.63	?UNDEF
5	13.70	0.00	099.00	097.78	19.40	0.00	101.27	099.87	57.40	0.00	103.65	103.43	101.72	?UNDEF
6	13.70	0.00	098.98	097.58	12.10	0.00	101.07	099.01	57.80	0.00	102.96	103.00	101.80	100.85
7	13.70	0.00	098.94	097.53	10.60	0.00	100.29	098.90	57.40	0.00	103.85	103.63	101.78	100.72
8	13.70	0.00	098.87	097.57	10.50	0.00	098.77	098.76	57.70	0.00	103.89	103.61	101.87	100.44
9	15.20	0.00	098.74	097.88	10.40	0.00	097.79	098.88	57.90	0.00	103.41	104.25	101.99	100.53
10	13.90	0.00	098.74	099.02	14.40	0.00	097.49	099.22	57.70	0.00	103.07	102.63	101.98	100.60
11	13.70	0.00	098.90	099.93	13.00	0.00	097.37	100.04	57.80	0.00	102.90	102.21	101.81	101.00
12	15.20	0.00	098.79	100.27	13.00	0.00	097.37	099.91	64.20	0.00	103.14	101.72	101.87	101.13
13	13.70	0.00	098.76	100.44	13.20	0.00	097.65	100.36	64.90	0.00	105.43	103.20	101.93	101.57
14	15.20	0.00	098.79	099.93	13.00	0.00	098.25	100.71	65.00	0.00	106.54	102.91	101.99	101.95
15	13.70	0.00	098.86	100.07	13.00	0.00	098.87	100.66	64.90	0.00	106.93	102.58	102.19	101.78
16	13.90	0.00	098.90	099.58	14.30	0.00	098.75	101.18	65.10	0.00	106.96	102.65	102.26	101.64
17	13.70	0.00	098.94	099.23	14.20	0.00	098.67	100.60	65.00	0.00	107.10	101.98	102.02	101.64
18	13.80	0.00	098.76	099.05	13.80	0.00	098.93	100.36	68.10	0.00	107.54	102.83	102.04	101.95
19	13.70	0.00	098.75	098.31	18.20	0.00	098.78	099.93	68.90	0.00	107.38	102.11	102.02	101.82
20	14.20	0.00	098.66	097.62	18.20	0.00	098.87	100.39	68.20	0.00	105.26	102.59	101.65	101.92
21	14.30	0.00	098.68	097.18	18.10	0.00	099.09	099.87	67.20	0.00	104.84	102.78	101.64	101.90
22	14.00	0.00	098.66	097.08	18.00	0.00	098.96	098.61	65.80	0.00	105.07	102.78	101.57	101.72
23	14.20	0.00	098.62	096.87	13.00	0.00	098.67	098.34	64.10	0.00	104.22	103.36	101.66	101.49
24	14.10	0.00	098.60	096.80	12.40	0.00	098.34	098.32	63.70	0.00	103.67	104.53	101.48	101.49

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HOUR	DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.40	0.00	103.72	098.43	?UNDEF	?UNDEF	?UNDEF	12.80	0.00	103.06	095.67	14.30	0.00	104.44	098.49
2	1.40	0.00	103.60	098.18	?UNDEF	?UNDEF	?UNDEF	13.00	0.00	102.71	095.55	14.50	0.00	104.81	098.23
3	1.40	0.00	103.57	097.90	?UNDEF	?UNDEF	?UNDEF	12.80	0.00	102.00	095.26	15.80	0.00	105.50	098.37
4	1.40	0.00	103.57	097.90	?UNDEF	?UNDEF	?UNDEF	12.70	0.00	102.31	095.17	14.30	0.00	105.24	098.11
5	1.40	0.00	103.57	097.86	?UNDEF	?UNDEF	?UNDEF	12.60	0.00	102.46	095.32	15.80	0.00	104.70	098.23
6	1.40	0.00	103.54	097.71	?UNDEF	?UNDEF	?UNDEF	12.60	0.00	102.96	095.30	14.30	0.00	104.54	098.37
7	1.40	0.00	103.61	097.69	?UNDEF	?UNDEF	?UNDEF	12.60	0.00	103.48	095.28	14.20	0.00	104.63	098.30
8	1.40	0.00	103.74	098.87	?UNDEF	?UNDEF	?UNDEF	12.60	0.00	102.78	095.52	14.50	0.00	104.37	098.29
9	1.40	0.00	104.16	099.95	?UNDEF	?UNDEF	?UNDEF	12.80	0.00	102.10	095.91	14.30	0.00	104.10	098.30
10	1.40	0.00	104.64	100.71	?UNDEF	?UNDEF	?UNDEF	12.60	0.00	102.42	096.47	14.30	0.00	103.60	098.49
11	1.50	0.00	105.14	102.19	?UNDEF	?UNDEF	?UNDEF	12.50	0.00	102.17	096.96	14.30	0.00	103.78	098.54
12	1.40	0.00	106.10	102.72	?UNDEF	?UNDEF	?UNDEF	12.60	0.00	102.39	097.14	14.30	0.00	103.89	098.75
13	1.50	0.00	106.88	103.79	?UNDEF	?UNDEF	?UNDEF	12.50	0.00	*****	097.33	14.50	0.00	103.95	098.81
14	1.40	0.00	107.28	104.19	?UNDEF	?UNDEF	?UNDEF	12.60	0.00	102.57	097.58	14.30	0.00	104.87	099.06
15	1.40	0.00	107.53	104.94	?UNDEF	?UNDEF	?UNDEF	12.80	0.00	102.85	097.81	15.80	0.00	106.57	099.14
16	1.40	0.00	107.47	104.75	?UNDEF	?UNDEF	?UNDEF	12.60	0.00	103.61	097.58	14.20	0.00	106.39	099.08
17	1.40	0.00	107.41	103.95	?UNDEF	?UNDEF	?UNDEF	12.60	0.00	105.94	097.38	14.30	0.00	106.78	099.23
18	1.40	0.00	106.93	102.45	?UNDEF	?UNDEF	?UNDEF	12.50	0.00	105.76	096.84	14.50	0.00	108.95	099.08
19	1.50	0.00	107.41	101.61	?UNDEF	?UNDEF	?UNDEF	12.50	0.00	105.88	096.54	14.20	0.00	108.41	098.91
20	1.40	0.00	105.21	100.76	?UNDEF	?UNDEF	?UNDEF	12.60	0.00	105.81	096.45	14.20	0.00	106.54	098.41
21	1.40	0.00	104.69	099.97	?UNDEF	?UNDEF	?UNDEF	14.30	0.00	104.34	097.04	14.20	0.00	104.61	098.24
22	1.50	0.00	104.32	099.56	?UNDEF	?UNDEF	?UNDEF	12.40	0.00	102.72	096.23	14.20	0.00	104.21	098.09
23	1.40	0.00	104.13	098.83	?UNDEF	?UNDEF	?UNDEF	13.00	0.00	102.29	096.10	14.50	0.00	104.46	097.88
24	1.50	0.00	103.96	097.83	?UNDEF	?UNDEF	?UNDEF	12.70	0.00	102.83	095.94	15.80	0.00	104.70	097.84

HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO	
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	13.60	0.00	101.48	097.81	13.10	0.00	100.55	099.56	71.60	0.00	107.15	104.96	101.89	101.93
2	13.60	0.00	101.48	097.77	13.10	0.00	101.75	099.45	67.90	0.00	106.85	104.89	101.72	101.51
3	13.60	0.00	100.81	097.75	13.10	0.00	102.29	099.28	68.70	0.00	106.32	105.63	101.74	100.59
4	13.80	0.00	102.15	097.80	13.00	0.00	101.35	099.31	69.50	0.00	105.39	105.89	101.74	100.63
5	13.60	0.00	103.34	097.76	13.20	0.00	101.10	099.44	64.30	0.00	105.21	106.13	101.70	100.73
6	13.60	0.00	103.30	097.68	12.90	0.00	101.47	099.43	63.50	0.00	103.87	105.85	101.54	100.69
7	13.50	0.00	103.17	097.66	10.10	0.00	101.74	099.41	57.20	0.00	104.12	105.56	101.52	100.52
8	15.10	0.00	103.00	097.76	12.60	0.00	102.37	099.49	62.90	0.00	103.51	104.94	101.62	100.51
9	13.60	0.00	102.75	099.11	12.70	0.00	102.75	099.56	64.90	0.00	103.72	104.41	101.75	100.49
10	17.00	0.00	102.90	099.88	14.40	0.00	103.14	100.11	62.70	0.00	103.83	104.33	102.08	100.79
11	13.60	0.00	103.22	100.61	12.70	0.00	102.91	100.24	60.80	0.00	105.60	104.33	102.24	101.08
12	13.60	0.00	105.33	101.31	13.10	0.00	102.86	100.75	61.00	0.00	104.88	105.24	102.44	101.47
13	13.60	0.00	104.32	100.79	13.00	0.00	102.65	101.15	59.10	0.00	105.19	104.74	102.79	101.75
14	13.60	0.00	103.44	100.55	14.50	0.00	102.72	102.42	58.30	0.00	105.37	104.43	102.96	101.99
15	13.70	0.00	103.45	100.56	14.50	0.00	103.07	102.26	59.20	0.00	104.84	104.40	102.65	101.64
16	13.80	0.00	104.53	100.35	14.70	0.00	103.14	101.79	59.60	0.00	107.17	104.33	102.59	101.56
17	13.70	0.00	103.76	100.36	12.90	0.00	103.24	101.72	59.80	0.00	106.87	103.76	102.36	101.75
18	19.20	0.00	104.03	099.35	17.20	0.00	104.09	102.16	63.00	0.00	108.06	103.89	102.29	101.86
19	21.00	0.00	103.22	098.93	20.70	0.00	104.51	102.16	68.90	0.00	107.94	103.61	102.17	103.09
20	21.00	0.00	102.22	098.59	22.30	0.00	104.33	100.88	68.90	0.00	107.54	103.45	102.14	103.33
21	21.30	0.00	102.17	098.35	21.10	0.00	104.01	099.96	69.20	0.00	104.51	103.15	101.85	103.03
22	17.80	0.00	101.59	098.17	20.60	0.00	103.12	099.84	62.80	0.00	105.89	103.53	101.72	102.55
23	17.70	0.00	100.40	098.15	20.00	0.00	102.29	099.96	59.70	0.00	104.96	103.13	101.59	102.30
24	15.70	0.00	099.73	098.01	18.30	0.00	101.89	099.32	57.30	0.00	105.21	103.41	101.67	102.30

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WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

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	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.
1	1.40	0.00	104.08	098.01	?UNDEF	?UNDEF	13.20	0.00	096.21	094.88	14.20	0.00	098.77	097.16
2	1.40	0.00	104.09	097.87	?UNDEF	?UNDEF	12.00	0.00	096.20	095.63	14.30	0.00	099.02	096.87
3	1.40	0.00	104.17	097.68	?UNDEF	?UNDEF	12.30	0.00	095.76	094.94	14.30	0.00	098.98	096.82
4	1.40	0.00	103.96	097.63	?UNDEF	?UNDEF	12.80	0.00	095.58	094.78	14.90	0.00	099.07	096.91
5	1.40	0.00	104.09	097.58	?UNDEF	?UNDEF	12.80	0.00	095.55	094.64	16.30	0.00	099.18	096.91
6	1.40	0.00	104.02	097.56	?UNDEF	?UNDEF	13.70	0.00	096.05	094.61	15.10	0.00	099.18	096.89
7	1.40	0.00	103.96	097.46	?UNDEF	?UNDEF	14.30	0.00	096.01	094.57	17.70	0.00	099.25	096.86
8	1.40	0.00	104.05	098.26	?UNDEF	?UNDEF	17.10	0.00	096.01	094.50	14.90	0.00	099.36	096.68
9	1.40	0.00	104.33	099.35	?UNDEF	?UNDEF	17.30	0.00	096.38	094.92	14.30	0.00	099.45	097.04
10	1.40	0.00	104.77	100.03	?UNDEF	?UNDEF	17.20	0.00	096.90	095.31	14.30	0.00	099.48	097.29
11	1.40	0.00	105.39	101.06	?UNDEF	?UNDEF	15.60	0.00	097.49	095.33	14.50	0.00	100.01	097.34
12	1.40	0.00	106.30	101.69	?UNDEF	?UNDEF	15.40	0.00	097.95	095.28	14.20	0.00	100.76	097.66
13	1.40	0.00	106.95	102.74	?UNDEF	?UNDEF	15.40	0.00	098.28	095.31	14.20	0.00	101.37	097.99
14	1.40	0.00	107.46	102.82	?UNDEF	?UNDEF	17.50	0.00	098.36	095.50	14.30	0.00	101.36	098.34
15	1.40	0.00	107.61	103.50	?UNDEF	?UNDEF	17.20	0.00	099.39	095.99	14.20	0.00	102.87	098.54
16	1.40	0.00	107.68	103.29	?UNDEF	?UNDEF	14.10	0.00	100.00	096.76	16.00	0.00	104.03	098.74
17	1.40	0.00	107.45	103.09	?UNDEF	?UNDEF	14.00	0.00	100.42	096.50	14.20	0.00	105.28	098.66
18	1.40	0.00	106.85	101.37	?UNDEF	?UNDEF	12.80	0.00	101.00	096.15	14.20	0.00	105.43	098.97
19	1.40	0.00	107.45	100.91	?UNDEF	?UNDEF	12.80	0.00	100.47	095.77	14.20	0.00	104.67	098.83
20	1.40	0.00	104.86	099.62	?UNDEF	?UNDEF	14.70	0.00	100.30	095.73	15.80	0.00	105.81	098.82
21	1.40	0.00	104.24	099.47	?UNDEF	?UNDEF	14.40	0.00	099.61	096.80	14.50	0.00	106.24	098.66
22	1.40	0.00	103.95	099.46	?UNDEF	?UNDEF	12.70	0.00	100.66	097.33	14.20	0.00	105.67	098.63
23	1.40	0.00	103.92	098.89	?UNDEF	?UNDEF	12.80	0.00	101.39	096.53	14.30	0.00	104.29	098.63
24	1.40	0.00	103.91	098.61	?UNDEF	?UNDEF	12.80	0.00	101.48	095.84	14.30	0.00	104.57	098.51

HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO	
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	15.30	0.00	098.12	097.79	9.70	0.00	099.47	098.63	55.70	0.00	103.24	103.60	101.08	102.15
2	14.90	0.00	098.10	098.42	9.30	0.00	100.72	098.59	54.10	0.00	104.40	102.89	101.20	101.88
3	13.50	0.00	098.20	098.80	10.90	0.00	101.32	098.44	57.30	0.00	105.46	104.71	100.97	101.73
4	13.90	0.00	099.25	097.92	9.40	0.00	101.29	098.44	63.40	0.00	103.53	103.90	101.08	101.44
5	15.30	0.00	099.72	097.57	9.40	0.00	101.77	098.66	107.90	0.00	100.73	104.55	101.45	101.29
6	13.90	0.00	099.57	097.55	10.90	0.00	102.05	098.64	105.40	0.00	101.21	104.64	101.26	101.12
7	15.10	0.00	099.53	097.53	9.50	0.00	101.99	098.84	110.00	0.00	099.51	103.49	101.08	100.77
8	13.90	0.00	099.36	097.56	12.90	0.00	101.65	099.32	103.90	0.00	098.94	103.28	101.18	100.56
9	14.00	0.00	099.32	097.86	14.50	0.00	101.46	099.91	89.90	0.00	103.10	103.54	101.29	100.68
10	14.30	0.00	098.66	098.30	18.10	0.00	100.63	100.16	87.90	0.00	101.71	103.92	101.52	100.81
11	13.90	0.00	098.41	098.84	18.20	0.00	099.85	100.40	81.70	0.00	101.35	103.69	101.58	101.22
12	15.20	0.00	098.47	099.44	18.20	0.00	099.79	100.82	87.00	0.00	104.34	104.16	102.06	101.67
13	13.90	0.00	098.63	100.35	18.40	0.00	099.81	101.33	100.80	0.00	106.66	104.11	102.37	102.10
14	17.40	0.00	098.98	099.79	18.10	0.00	099.93	101.44	102.70	0.00	106.83	103.53	102.21	102.74
15	17.90	0.00	099.33	099.96	18.00	0.00	100.12	101.05	100.40	0.00	108.56	103.62	102.20	102.94
16	17.90	0.00	099.95	100.03	18.20	0.00	100.24	101.12	101.10	0.00	105.35	104.12	102.26	103.20
17	14.40	0.00	100.28	099.85	18.20	0.00	101.62	101.15	101.20	0.00	104.72	104.03	102.21	103.22
18	14.30	0.00	100.03	099.46	15.20	0.00	102.06	101.23	100.50	0.00	101.49	109.91	102.61	103.29
19	14.30	0.00	100.07	099.02	13.30	0.00	102.06	101.05	102.20	0.00	101.04	109.39	102.59	103.04
20	13.70	0.00	100.28	098.46	12.90	0.00	101.89	100.49	102.50	0.00	100.75	108.58	102.44	102.89
21	13.60	0.00	100.38	098.10	13.00	0.00	101.66	100.24	101.90	0.00	100.47	107.88	102.34	102.61
22	13.90	0.00	100.36	098.06	13.10	0.00	101.87	100.11	101.30	0.00	101.28	106.95	102.14	102.35
23	13.80	0.00	100.95	098.04	13.10	0.00	101.48	100.37	102.40	0.00	107.27	106.41	102.12	102.23
24	13.70	0.00	101.05	097.97	13.20	0.00	100.86	100.23	101.30	0.00	107.64	106.16	102.12	102.23

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WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

13 SEP 2001

DWRSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	
1	1.40	0.00	104.63	098.92	?UNDEF	?UNDEF	14.40	0.00	097.68	094.47	15.80	0.00	100.77	097.34	
2	1.40	0.00	104.53	098.60	?UNDEF	?UNDEF	14.10	0.00	097.35	093.99	14.20	0.00	100.82	097.45	
3	1.40	0.00	104.33	098.43	?UNDEF	?UNDEF	15.70	0.00	098.11	094.18	14.20	0.00	100.47	097.39	
4	1.40	0.00	104.29	098.35	?UNDEF	?UNDEF	14.20	0.00	097.97	094.60	14.50	0.00	100.46	097.34	
5	1.50	0.00	104.24	098.32	?UNDEF	?UNDEF	14.00	0.00	097.36	094.53	14.20	0.00	100.16	097.19	
6	1.40	0.00	104.16	098.20	?UNDEF	?UNDEF	14.20	0.00	096.80	094.80	15.70	0.00	099.87	097.30	
7	1.40	0.00	104.10	098.08	?UNDEF	?UNDEF	18.40	0.00	096.30	094.55	14.20	0.00	099.70	097.09	
8	1.40	0.00	104.33	098.30	?UNDEF	?UNDEF	18.00	0.00	096.36	094.64	14.30	0.00	099.45	097.12	
9	1.40	0.00	104.95	098.93	?UNDEF	?UNDEF	17.30	0.00	096.57	094.97	14.30	0.00	099.30	097.23	
10	1.40	0.00	105.33	100.48	?UNDEF	?UNDEF	17.30	0.00	097.11	095.39	16.10	0.00	099.54	097.36	
11	1.40	0.00	106.07	101.58	?UNDEF	?UNDEF	17.30	0.00	096.86	095.37	14.30	0.00	099.68	097.36	
12	1.40	0.00	106.96	102.11	?UNDEF	?UNDEF	17.30	0.00	096.59	095.37	14.30	0.00	099.58	097.37	
13	1.40	0.00	107.82	102.26	?UNDEF	?UNDEF	17.60	0.00	096.59	095.41	14.30	0.00	099.34	097.56	
14	1.40	0.00	108.17	102.57	?UNDEF	?UNDEF	17.40	0.00	096.25	095.60	14.50	0.00	099.49	097.56	
15	1.40	0.00	108.34	103.31	?UNDEF	?UNDEF	19.10	0.00	095.91	095.35	15.80	0.00	099.53	097.77	
16	1.40	0.00	108.13	103.23	?UNDEF	?UNDEF	17.40	0.00	095.54	095.80	15.70	0.00	099.31	098.09	
17	1.50	0.00	107.90	102.57	?UNDEF	?UNDEF	19.00	0.00	095.70	095.43	14.20	0.00	099.50	098.12	
18	1.40	0.00	107.06	101.01	?UNDEF	?UNDEF	17.40	0.00	095.42	095.15	14.20	0.00	099.38	098.00	
19	1.40	0.00	107.90	100.16	?UNDEF	?UNDEF	19.40	0.00	095.31	094.88	14.50	0.00	098.83	097.87	
20	1.50	0.00	105.06	099.71	?UNDEF	?UNDEF	20.60	0.00	096.60	095.65	15.80	0.00	099.17	097.64	
21	1.40	0.00	104.40	099.24	?UNDEF	?UNDEF	15.20	0.00	096.77	095.58	15.70	0.00	099.23	097.60	
22	1.40	0.00	104.06	098.87	?UNDEF	?UNDEF	16.70	0.00	096.59	095.13	14.20	0.00	098.91	097.43	
23	1.40	0.00	104.00	098.52	?UNDEF	?UNDEF	13.90	0.00	096.43	095.08	14.20	0.00	099.15	097.37	
24	1.40	0.00	104.04	098.18	?UNDEF	?UNDEF	15.80	0.00	096.39	095.03	14.40	0.00	098.95	097.20	
LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS OR FB	%SAT WA FB	TOTAL DISCH KCFS	GAS % SAT	
1	13.90	0.00	101.39	098.15	9.20	0.00	098.58	100.23	71.50	0.00	102.47	104.76	102.13	102.06	
2	15.20	0.00	101.35	098.49	9.20	0.00	098.35	099.51	61.80	0.00	105.51	104.88	101.84	101.76	
3	15.10	0.00	100.59	098.78	9.20	0.00	098.34	099.21	60.50	0.00	104.96	105.84	101.68	101.58	
4	13.60	0.00	100.56	099.00	9.20	0.00	098.42	099.44	59.90	0.00	104.20	105.10	101.49	101.41	
5	13.70	0.00	100.94	098.81	9.40	0.00	098.55	100.33	61.30	0.00	103.65	105.03	101.02	101.23	
6	13.70	0.00	100.77	097.79	10.70	0.00	099.01	099.21	82.40	0.00	102.76	104.47	101.25	100.93	
7	13.70	0.00	100.16	097.59	9.20	0.00	099.08	099.03	94.50	0.00	101.77	103.85	101.29	100.72	
8	13.90	0.00	100.07	097.64	10.80	0.00	098.61	099.20	106.30	0.00	101.51	103.36	101.52	100.51	
9	13.70	0.00	100.04	097.91	12.80	0.00	098.57	099.39	109.00	0.00	102.06	103.06	101.57	100.43	
10	13.70	0.00	100.05	098.36	14.80	0.00	098.40	100.31	108.00	0.00	102.30	102.46	101.67	100.69	
11	15.20	0.00	100.07	099.57	12.90	0.00	098.38	100.40	106.30	0.00	100.90	102.05	101.82	101.12	
12	18.10	0.00	100.00	100.20	12.70	0.00	098.24	100.93	105.60	0.00	100.70	102.53	101.99	101.52	
13	16.80	0.00	099.81	100.03	12.60	0.00	098.45	100.87	107.20	0.00	101.16	102.93	101.88	101.97	
14	16.80	0.00	099.85	100.39	12.90	0.00	098.22	101.27	108.40	0.00	101.30	102.73	101.97	102.58	
15	17.00	0.00	099.64	100.21	18.10	0.00	098.41	101.37	98.10	0.00	101.64	103.08	102.05	103.05	
16	18.30	0.00	099.54	100.03	18.50	0.00	098.77	100.91	96.40	0.00	102.29	102.88	102.10	103.09	
17	16.90	0.00	099.48	099.96	20.50	0.00	098.81	100.76	96.40	0.00	103.00	102.70	102.18	103.28	
18	16.90	0.00	099.23	099.45	20.80	0.00	098.96	100.64	98.20	0.00	105.57	102.68	102.24	103.30	
19	19.70	0.00	098.83	098.82	25.10	0.00	099.10	100.09	112.00	0.00	105.78	102.40	101.92	103.15	
20	20.10	0.00	098.71	098.35	25.40	0.00	099.42	099.52	114.50	0.00	100.01	103.12	101.59	102.84	
21	20.00	0.00	098.52	098.12	25.80	0.00	099.51	099.19	113.90	0.00	103.05	102.29	101.49	102.64	
22	20.00	0.00	098.09	098.02	25.90	0.00	099.64	099.16	112.20	0.00	103.65	104.37	101.35	102.49	
23	20.40	0.00	098.06	097.96	25.10	0.00	099.88	098.99	110.80	0.00	100.03	104.86	101.32	102.42	
24	19.70	0.00	098.03	097.87	18.20	0.00	099.92	098.83	81.10	0.00	099.84	104.27	101.25	102.42	

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HOUR	DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
	TOTAL DISCH KCFS	SPILL KCFS	GAS TAILW.	%SAT	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT	TOTAL DISCH KCFS
1	1.40	0.00	104.43	098.44	?UNDEF	?UNDEF	?UNDEF	15.40	0.00	100.23	097.27	15.20	0.00	098.75	096.45	
2	1.40	0.00	104.39	098.42	?UNDEF	?UNDEF	?UNDEF	14.10	0.00	101.03	097.40	15.10	0.00	099.10	096.42	
3	1.40	0.00	104.39	098.45	?UNDEF	?UNDEF	?UNDEF	14.10	0.00	101.55	096.97	15.40	0.00	098.98	096.42	
4	1.40	0.00	104.36	098.49	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	102.35	096.85	15.10	0.00	098.87	096.42	
5	1.40	0.00	104.27	098.12	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	102.03	096.60	15.10	0.00	098.87	096.45	
6	1.40	0.00	104.25	098.25	?UNDEF	?UNDEF	?UNDEF	14.40	0.00	101.70	096.17	16.60	0.00	098.96	096.54	
7	1.40	0.00	104.33	098.10	?UNDEF	?UNDEF	?UNDEF	14.10	0.00	101.27	096.03	16.60	0.00	098.95	096.77	
8	1.40	0.00	104.48	098.63	?UNDEF	?UNDEF	?UNDEF	15.60	0.00	100.69	095.94	16.10	0.00	099.03	096.74	
9	1.40	0.00	104.93	099.71	?UNDEF	?UNDEF	?UNDEF	16.40	0.00	100.15	096.41	17.40	0.00	099.06	097.02	
10	1.40	0.00	105.51	100.15	?UNDEF	?UNDEF	?UNDEF	16.30	0.00	099.65	096.82	17.50	0.00	099.19	097.02	
11	1.40	0.00	106.25	101.20	?UNDEF	?UNDEF	?UNDEF	17.50	0.00	099.55	096.74	25.90	0.00	099.26	097.24	
12	1.40	0.00	107.16	102.18	?UNDEF	?UNDEF	?UNDEF	18.30	0.00	100.46	097.06	26.20	0.00	099.60	097.44	
13	1.40	0.00	107.87	102.99	?UNDEF	?UNDEF	?UNDEF	18.90	0.00	101.11	097.30	26.80	0.00	100.75	097.78	
14	1.40	0.00	108.33	103.70	?UNDEF	?UNDEF	?UNDEF	18.30	0.00	101.48	097.28	26.40	0.00	101.46	098.04	
15	1.40	0.00	108.60	104.29	?UNDEF	?UNDEF	?UNDEF	18.20	0.00	100.92	097.24	19.00	0.00	101.28	098.16	
16	1.40	0.00	108.43	104.62	?UNDEF	?UNDEF	?UNDEF	19.70	0.00	100.33	097.20	15.30	0.00	100.99	098.23	
17	1.40	0.00	108.05	104.10	?UNDEF	?UNDEF	?UNDEF	17.90	0.00	100.33	097.20	15.20	0.00	100.97	098.27	
18	1.40	0.00	107.56	103.30	?UNDEF	?UNDEF	?UNDEF	18.20	0.00	100.34	097.08	15.40	0.00	101.11	098.09	
19	1.40	0.00	108.05	102.05	?UNDEF	?UNDEF	?UNDEF	17.80	0.00	099.74	096.39	15.10	0.00	103.00	097.83	
20	1.40	0.00	105.66	100.68	?UNDEF	?UNDEF	?UNDEF	16.10	0.00	099.80	095.74	14.30	0.00	102.63	097.76	
21	1.40	0.00	105.18	100.20	?UNDEF	?UNDEF	?UNDEF	14.30	0.00	099.40	096.00	14.20	0.00	102.46	097.46	
22	1.40	0.00	104.98	099.65	?UNDEF	?UNDEF	?UNDEF	14.10	0.00	099.63	095.88	14.30	0.00	101.59	097.43	
23	1.40	0.00	104.88	099.56	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	097.87	095.84	14.50	0.00	101.48	097.28	
24	1.40	0.00	104.83	099.19	?UNDEF	?UNDEF	?UNDEF	14.10	0.00	097.18	094.92	15.80	0.00	100.74	097.36	
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT		
1	13.70	0.00	099.42	097.92	13.00	0.00	097.91	098.95	104.20	0.00	105.35	105.40	102.16	102.23		
2	14.10	0.00	099.54	097.82	13.00	0.00	097.95	099.51	103.50	0.00	105.21	105.14	101.90	102.13		
3	13.80	0.00	099.54	097.84	13.30	0.00	097.93	099.23	102.90	0.00	104.91	104.88	101.94	101.97		
4	13.80	0.00	099.54	097.84	13.10	0.00	098.13	098.68	103.70	0.00	104.91	104.48	102.05	101.72		
5	13.80	0.00	099.53	097.80	13.10	0.00	098.23	098.56	107.60	0.00	104.74	104.62	101.78	101.69		
6	13.80	0.00	099.50	097.93	13.10	0.00	098.19	098.52	110.90	0.00	103.13	103.95	101.76	101.53		
7	13.90	0.00	099.46	097.88	13.00	0.00	098.58	098.51	113.30	0.00	102.34	103.91	101.78	101.39		
8	14.10	0.00	099.70	098.00	13.30	0.00	098.72	099.02	113.40	0.00	101.49	103.71	101.70	101.37		
9	13.80	0.00	099.72	098.32	20.00	0.00	098.52	099.21	113.70	0.00	101.24	103.83	101.99	101.21		
10	13.90	0.00	099.73	098.60	18.10	0.00	098.64	099.56	113.90	0.00	099.25	103.71	102.14	101.37		
11	15.30	0.00	099.88	099.43	18.10	0.00	098.66	099.92	114.00	0.00	100.33	103.09	102.43	101.49		
12	15.30	0.00	099.84	100.37	19.60	0.00	098.58	100.24	114.60	0.00	105.74	102.74	102.63	101.87		
13	13.80	0.00	100.34	100.52	18.10	0.00	098.30	101.02	114.60	0.00	106.64	103.23	102.74	102.19		
14	13.80	0.00	100.30	101.41	19.90	0.00	098.69	100.99	114.10	0.00	107.23	103.31	102.79	102.70		
15	15.30	0.00	100.43	100.52	19.60	0.00	098.64	101.64	115.00	0.00	104.85	103.45	102.93	102.94		
16	13.70	0.00	100.61	100.75	18.10	0.00	098.48	102.36	127.10	0.00	105.56	103.52	102.88	103.31		
17	13.70	0.00	100.69	101.32	19.60	0.00	098.23	102.07	125.60	0.00	105.92	105.32	103.05	103.32		
18	15.40	0.00	101.19	099.91	18.00	0.00	098.25	101.39	126.30	0.00	101.89	105.84	103.20	103.35		
19	13.60	0.00	102.28	099.88	18.30	0.00	098.39	000.00	126.60	0.00	100.55	105.29	103.08	103.25		
20	13.60	0.00	103.95	099.19	16.40	0.00	098.32	099.87	121.90	0.00	104.13	105.10	102.73	103.08		
21	13.60	0.00	104.88	098.52	9.40	0.00	098.28	100.25	120.20	0.00	100.17	105.88	102.68	103.00		
22	13.60	0.00	104.14	098.44	9.30	0.00	098.23	099.37	100.90	0.00	102.31	106.49	102.77	102.67		
23	13.70	0.00	103.99	098.23	10.70	0.00	098.73	099.08	82.30	0.00	101.99	106.33	102.46	102.53		
24	13.70	0.00	102.36	098.18	9.30	0.00	098.73	099.06	75.30	0.00	104.81	105.78	102.34	102.53		

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DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS TAILW.	%SAT	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.
1	1.50	0.00	104.17	099.47	?UNDEF	?UNDEF	?UNDEF	14.10	0.00	100.08	097.50	14.00	0.00	098.99	097.87
2	1.40	0.00	104.14	099.16	?UNDEF	?UNDEF	?UNDEF	14.10	0.00	100.16	097.32	14.20	0.00	098.85	097.58
3	1.40	0.00	103.90	099.12	?UNDEF	?UNDEF	?UNDEF	14.10	0.00	099.72	097.15	15.50	0.00	098.73	097.54
4	1.40	0.00	104.04	098.67	?UNDEF	?UNDEF	?UNDEF	14.30	0.00	099.14	097.25	14.00	0.00	098.59	097.24
5	1.40	0.00	104.08	098.46	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	098.75	097.10	15.50	0.00	098.46	097.08
6	1.40	0.00	104.02	098.28	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	098.98	097.07	13.90	0.00	105.07	096.79
7	1.40	0.00	103.84	098.11	?UNDEF	?UNDEF	?UNDEF	14.80	0.00	098.90	097.01	14.20	0.00	103.04	096.47
8	1.40	0.00	104.10	098.61	?UNDEF	?UNDEF	?UNDEF	14.30	0.00	099.21	097.12	13.20	0.00	104.10	096.42
9	1.40	0.00	104.52	099.73	?UNDEF	?UNDEF	?UNDEF	14.40	0.00	099.02	097.51	13.30	0.00	101.64	096.57
10	1.50	0.00	105.11	100.47	?UNDEF	?UNDEF	?UNDEF	14.20	0.00	099.42	098.19	13.30	0.00	099.12	096.55
11	1.40	0.00	105.89	101.42	?UNDEF	?UNDEF	?UNDEF	11.60	0.00	099.60	098.52	14.00	0.00	098.23	096.57
12	1.40	0.00	106.81	102.22	?UNDEF	?UNDEF	?UNDEF	14.10	0.00	100.71	098.68	14.30	0.00	098.19	096.55
13	1.40	0.00	107.74	103.16	?UNDEF	?UNDEF	?UNDEF	14.20	0.00	101.13	098.92	14.00	0.00	098.12	096.60
14	1.50	0.00	108.12	103.67	?UNDEF	?UNDEF	?UNDEF	13.30	.40	101.59	099.14	14.10	0.00	098.44	096.95
15	1.40	0.00	108.07	104.18	?UNDEF	?UNDEF	?UNDEF	18.60	6.40	103.04	099.74	14.00	0.00	098.94	097.05
16	1.50	0.00	107.76	104.26	?UNDEF	?UNDEF	?UNDEF	16.20	2.20	102.81	106.16	14.00	0.00	099.14	097.26
17	1.40	0.00	107.26	103.46	?UNDEF	?UNDEF	?UNDEF	14.20	0.00	102.72	104.72	14.30	0.00	099.18	097.18
18	1.40	0.00	106.56	102.14	?UNDEF	?UNDEF	?UNDEF	16.00	0.00	103.39	102.33	14.00	0.00	099.38	097.19
19	1.40	0.00	107.26	101.36	?UNDEF	?UNDEF	?UNDEF	14.30	0.00	103.39	100.85	14.00	0.00	099.26	096.94
20	1.50	0.00	104.88	100.76	?UNDEF	?UNDEF	?UNDEF	17.30	0.00	102.60	099.60	15.70	0.00	099.06	096.78
21	1.40	0.00	104.50	099.99	?UNDEF	?UNDEF	?UNDEF	29.30	0.00	102.18	098.76	17.50	0.00	099.07	096.77
22	1.40	0.00	104.34	099.47	?UNDEF	?UNDEF	?UNDEF	27.70	0.00	103.38	097.98	17.80	0.00	099.07	096.48
23	1.40	0.00	104.49	099.06	?UNDEF	?UNDEF	?UNDEF	29.80	0.00	101.84	098.23	17.60	0.00	098.92	096.51
24	1.40	0.00	104.44	098.60	?UNDEF	?UNDEF	?UNDEF	26.80	0.00	100.69	097.87	17.60	0.00	098.61	096.57
LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT	
1	13.50	0.00	098.20	098.61	12.70	0.00	097.31	098.81	61.10	0.00	102.25	103.62	099.95	101.97	
2	13.70	0.00	098.27	098.16	12.70	0.00	097.22	098.65	60.80	0.00	102.74	103.33	099.89	101.96	
3	13.50	0.00	098.08	097.46	12.90	0.00	097.49	098.47	60.60	0.00	104.40	102.92	099.83	101.76	
4	13.50	0.00	098.08	097.42	14.10	0.00	097.72	098.59	60.90	0.00	104.21	103.25	099.78	101.64	
5	13.50	0.00	098.03	097.34	12.50	0.00	097.69	098.50	73.80	0.00	104.19	103.22	099.76	101.26	
6	13.50	0.00	098.03	097.26	12.50	0.00	097.73	098.50	82.90	0.00	102.15	103.34	099.87	100.93	
7	13.50	0.00	097.98	097.34	11.20	0.00	097.71	098.31	83.50	0.00	100.38	102.88	099.80	100.61	
8	15.50	0.00	097.93	098.08	11.40	0.00	097.39	099.05	83.30	0.00	100.70	102.58	100.04	100.45	
9	13.90	0.00	097.87	098.63	11.10	0.00	097.35	099.89	83.50	0.00	102.07	101.21	100.13	100.41	
10	13.80	0.00	097.91	098.25	11.10	0.00	097.60	099.93	92.60	0.00	102.47	100.52	100.29	100.66	
11	13.70	0.00	097.81	098.66	11.20	0.00	097.64	099.93	97.00	0.00	104.48	101.12	100.62	101.00	
12	13.80	0.00	097.87	098.92	12.70	0.00	097.56	100.11	95.90	0.00	104.29	101.97	100.79	101.58	
13	14.10	0.00	097.92	099.21	11.40	0.00	097.81	100.85	95.80	0.00	105.56	102.73	100.88	102.05	
14	13.80	0.00	098.04	099.47	11.30	0.00	097.72	101.54	95.90	0.00	104.31	104.27	101.12	102.69	
15	13.90	0.00	098.36	099.50	11.30	0.00	098.08	101.55	96.10	0.00	103.19	106.36	101.35	103.18	
16	13.90	0.00	098.82	099.60	11.20	0.00	098.06	101.62	96.10	0.00	100.89	107.20	101.68	103.65	
17	15.40	0.00	099.03	099.53	11.20	0.00	097.82	102.12	96.90	0.00	102.00	107.02	101.84	103.69	
18	13.80	0.00	099.99	100.08	11.40	0.00	097.74	101.28	97.10	0.00	102.58	106.94	101.77	103.48	
19	14.00	0.00	099.73	099.77	14.00	0.00	097.74	100.49	105.30	0.00	106.85	106.54	101.40	103.55	
20	13.80	0.00	099.60	098.59	12.60	0.00	097.75	100.21	117.40	0.00	107.42	105.65	101.30	103.37	
21	13.70	0.00	099.45	098.21	14.00	0.00	097.87	099.79	121.20	0.00	106.97	105.99	101.49	103.21	
22	13.70	0.00	099.61	098.03	13.20	0.00	098.03	099.68	119.80	0.00	107.28	106.26	101.76	103.09	
23	13.80	0.00	099.56	098.01	13.00	0.00	098.11	099.77	127.80	0.00	105.92	105.57	101.72	102.81	
24	13.70	0.00	099.57	097.97	13.00	0.00	098.25	099.61	114.70	0.00	101.79	105.26	101.95	102.81	

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	DWORSHAK			STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.40	0.00	104.41	098.62	?UNDEF	?UNDEF	12.70	0.00	098.94	098.22	12.70	0.00	100.13	099.15
2	1.40	0.00	104.36	098.38	?UNDEF	?UNDEF	12.50	0.00	098.77	098.10	12.50	0.00	100.00	099.03
3	1.40	0.00	104.31	098.38	?UNDEF	?UNDEF	12.50	0.00	098.88	097.92	12.50	0.00	099.97	099.03
4	1.40	0.00	104.29	098.10	?UNDEF	?UNDEF	12.50	0.00	098.59	097.77	12.40	0.00	099.68	099.02
5	1.40	0.00	104.26	098.08	?UNDEF	?UNDEF	12.50	0.00	098.88	097.79	12.40	0.00	105.77	098.97
6	1.40	0.00	104.19	097.99	?UNDEF	?UNDEF	12.50	0.00	098.95	097.75	14.30	0.00	102.24	098.94
7	1.40	0.00	104.10	097.95	?UNDEF	?UNDEF	14.20	0.00	098.93	097.71	12.40	0.00	107.98	098.71
8	1.40	0.00	104.39	099.43	?UNDEF	?UNDEF	12.70	0.00	099.14	098.07	12.40	0.00	108.49	098.57
9	1.40	0.00	104.78	100.82	?UNDEF	?UNDEF	12.60	0.00	099.27	098.59	12.40	0.00	107.65	098.83
10	1.40	0.00	105.39	101.41	?UNDEF	?UNDEF	13.30	0.00	099.41	098.75	14.00	0.00	100.61	098.98
11	1.40	0.00	106.26	102.47	?UNDEF	?UNDEF	12.60	0.00	099.73	100.00	12.70	0.00	101.22	099.17
12	1.40	0.00	107.19	103.13	?UNDEF	?UNDEF	12.60	0.00	100.16	100.00	12.50	0.00	099.62	099.22
13	1.40	0.00	107.67	103.65	?UNDEF	?UNDEF	13.60	0.00	100.09	100.07	12.50	0.00	099.53	099.37
14	1.40	0.00	107.88	104.22	?UNDEF	?UNDEF	16.70	0.00	101.34	100.24	12.40	0.00	099.29	099.57
15	1.40	0.00	108.10	104.08	?UNDEF	?UNDEF	12.70	0.00	102.60	101.50	12.40	0.00	099.34	099.73
16	1.40	0.00	107.83	104.05	?UNDEF	?UNDEF	13.80	0.00	102.19	100.84	14.10	0.00	099.11	099.74
17	1.40	0.00	107.44	103.76	?UNDEF	?UNDEF	14.30	0.00	101.76	100.57	13.90	0.00	098.96	099.62
18	1.40	0.00	106.74	103.05	?UNDEF	?UNDEF	14.40	0.00	101.42	100.04	14.10	0.00	098.95	099.62
19	1.40	0.00	107.44	102.62	?UNDEF	?UNDEF	13.80	0.00	101.07	099.31	13.50	0.00	098.67	099.44
20	1.40	0.00	105.21	101.99	?UNDEF	?UNDEF	15.60	0.00	100.16	098.46	15.10	0.00	098.72	099.23
21	1.40	0.00	104.73	101.24	?UNDEF	?UNDEF	14.00	0.00	100.54	098.00	13.80	0.00	098.82	098.97
22	1.40	0.00	104.51	100.71	?UNDEF	?UNDEF	16.00	0.00	100.26	098.07	13.80	0.00	099.15	098.75
23	1.50	0.00	104.44	100.00	?UNDEF	?UNDEF	14.10	0.00	099.95	098.18	14.00	0.00	099.23	098.44
24	1.40	0.00	104.37	099.84	?UNDEF	?UNDEF	14.10	0.00	100.28	097.93	13.90	0.00	099.17	098.23

	LOWER MONUMENTAL					ICE HARBOR					MCNARY					PASCO
HOUR	TOTAL DISCH	SPILL	GAS	%SAT.	TOTAL DISCH	SPILL	GAS	%SAT.	TOTAL DISCH	SPILL	GAS	%SAT.	TOTAL DISCH	SPILL	GAS	
	KCFS	KCFS	FB	TAILW.	KCFS	KCFS	FB	TAILW.	KCFS	KCFS	FB	TAILW.	KCFS	KCFS	FB	
															% SAT	
1	13.70	0.00	098.53	097.23	12.00	0.00	098.67	099.59	54.50	0.00	103.54	103.77	100.16		101.82	
2	13.70	0.00	098.48	097.19	12.20	0.00	099.32	099.69	54.60	0.00	104.04	103.74	100.13		101.80	
3	15.40	0.00	098.48	097.29	11.90	0.00	099.46	100.08	55.60	0.00	103.72	103.55	100.26		101.64	
4	13.60	0.00	098.33	097.94	11.80	0.00	099.56	099.38	55.20	0.00	103.19	103.13	100.17		101.48	
5	13.60	0.00	098.35	098.01	13.20	0.00	099.44	099.21	60.60	0.00	102.89	103.39	100.32		101.50	
6	13.60	0.00	098.27	097.25	11.60	0.00	099.26	099.31	62.70	0.00	102.51	103.22	100.26		101.46	
7	12.40	0.00	098.24	097.24	11.70	0.00	099.08	099.18	68.50	0.00	102.44	102.63	100.09		101.09	
8	12.10	0.00	098.21	097.31	11.30	0.00	098.93	099.67	72.30	0.00	102.24	102.62	100.17		100.96	
9	12.20	0.00	098.17	097.72	11.30	0.00	098.62	099.97	79.00	0.00	102.13	102.32	100.44		101.04	
10	12.70	0.00	098.20	098.40	12.10	0.00	098.60	101.33	79.40	0.00	104.11	102.84	100.71		101.31	
11	12.30	0.00	098.11	098.93	10.50	0.00	098.35	101.04	79.20	0.00	104.50	102.84	100.99		101.59	
12	12.20	0.00	098.01	099.46	10.70	0.00	098.21	101.02	74.70	0.00	104.72	102.62	101.31		102.01	
13	13.30	0.00	098.01	099.58	10.50	0.00	098.14	101.32	73.60	0.00	105.10	102.27	101.49		102.28	
14	12.50	0.00	098.04	099.89	10.40	0.00	097.76	102.11	76.00	0.00	105.31	102.02	101.64		102.16	
15	12.30	0.00	097.97	099.70	11.90	0.00	097.53	102.76	76.10	0.00	104.80	101.83	101.75		102.12	
16	12.30	0.00	097.97	099.66	10.50	0.00	097.31	102.38	75.50	0.00	105.78	101.43	101.91		102.30	
17	12.30	0.00	097.85	099.38	10.40	0.00	097.28	101.85	75.50	0.00	105.57	101.75	101.73		102.43	
18	12.30	0.00	097.99	099.26	10.20	0.00	097.86	101.71	76.40	0.00	102.87	101.07	101.24		102.56	
19	13.40	0.00	097.81	098.77	10.60	0.00	097.87	100.87	74.40	0.00	102.78	100.40	100.95		102.59	
20	13.90	0.00	097.75	098.30	12.40	0.00	098.08	101.04	71.30	0.00	103.64	101.26	100.63		102.40	
21	13.50	0.00	097.70	098.10	12.50	0.00	097.98	100.05	70.10	0.00	103.52	102.24	100.46		102.33	
22	13.60	0.00	097.66	097.82	12.70	0.00	097.94	099.65	61.70	0.00	103.88	101.41	100.41		102.16	
23	13.60	0.00	097.62	097.74	12.60	0.00	097.66	099.32	61.40	0.00	103.61	101.11	100.24		102.12	
24	15.00	0.00	097.71	097.65	12.70	0.00	097.49	099.04	62.30	0.00	102.14	104.11	100.01		102.12	

09 SEP 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

09 SEP 2001

DWRSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	
1	1.40	0.00	104.47	099.28	?UNDEF	?UNDEF	16.20	0.00	100.23	098.05	15.70	0.00	100.24	098.98	
2	1.40	0.00	104.47	098.85	?UNDEF	?UNDEF	16.60	0.00	100.22	098.06	15.50	0.00	100.40	099.01	
3	1.40	0.00	104.32	?UNDEF	?UNDEF	?UNDEF	17.10	0.00	099.99	098.02	21.80	0.00	100.21	099.12	
4	1.40	0.00	104.23	098.79	?UNDEF	?UNDEF	14.30	0.00	099.80	097.75	14.60	0.00	106.76	098.97	
5	1.40	0.00	104.23	098.83	?UNDEF	?UNDEF	14.90	0.00	099.84	097.75	15.00	0.00	108.35	098.96	
6	1.40	0.00	104.18	098.66	?UNDEF	?UNDEF	14.80	0.00	099.66	097.97	14.70	0.00	108.79	098.96	
7	1.40	0.00	104.19	098.48	?UNDEF	?UNDEF	13.30	0.00	099.47	097.97	13.20	0.00	109.72	098.80	
8	1.50	0.00	104.32	099.73	?UNDEF	?UNDEF	11.90	0.00	099.37	098.28	13.30	0.00	109.15	098.67	
9	1.40	0.00	104.65	101.29	?UNDEF	?UNDEF	11.60	0.00	099.54	098.70	11.80	0.00	108.44	098.85	
10	1.50	0.00	105.14	102.31	?UNDEF	?UNDEF	13.40	0.00	099.43	100.75	11.90	0.00	106.30	099.13	
11	1.40	0.00	105.93	102.96	?UNDEF	?UNDEF	11.70	0.00	099.76	100.28	12.10	0.00	099.61	099.34	
12	1.40	0.00	106.86	104.18	?UNDEF	?UNDEF	13.40	0.00	100.08	100.05	12.00	0.00	099.54	099.50	
13	1.40	0.00	107.79	104.53	?UNDEF	?UNDEF	11.70	0.00	100.41	101.46	12.00	0.00	099.50	099.87	
14	1.50	0.00	108.18	104.93	?UNDEF	?UNDEF	11.90	0.00	101.43	101.03	13.50	0.00	099.39	100.04	
15	1.40	0.00	108.39	105.70	?UNDEF	?UNDEF	13.40	0.00	102.57	100.67	13.50	0.00	099.20	100.09	
16	1.40	0.00	108.00	105.62	?UNDEF	?UNDEF	11.70	0.00	102.10	102.08	12.20	0.00	099.14	100.16	
17	1.40	0.00	107.78	105.08	?UNDEF	?UNDEF	11.70	0.00	101.75	100.66	12.00	0.00	099.97	100.34	
18	1.40	0.00	107.04	104.00	?UNDEF	?UNDEF	13.60	0.00	101.63	100.66	12.10	0.00	100.18	100.26	
19	1.40	0.00	107.78	102.65	?UNDEF	?UNDEF	14.10	0.00	100.88	100.43	12.50	0.00	100.19	100.03	
20	1.40	0.00	105.03	101.32	?UNDEF	?UNDEF	12.90	0.00	100.41	099.99	12.90	0.00	100.13	099.83	
21	1.40	0.00	104.66	100.65	?UNDEF	?UNDEF	12.50	0.00	100.22	099.12	12.70	0.00	100.23	099.56	
22	1.40	0.00	104.48	099.93	?UNDEF	?UNDEF	12.40	0.00	099.95	099.18	12.60	0.00	100.22	099.52	
23	1.40	0.00	104.44	099.36	?UNDEF	?UNDEF	12.40	0.00	099.23	098.87	12.60	0.00	100.20	099.23	
24	1.40	0.00	104.44	099.05	?UNDEF	?UNDEF	12.50	0.00	099.11	098.52	12.50	0.00	100.18	099.30	
LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS %SAT			
1	16.00	0.00	098.77	097.59	19.80	0.00	099.12	099.43	53.50	0.00	101.17	100.77	100.18	100.88	
2	16.10	0.00	098.71	097.53	18.00	0.00	099.21	099.28	54.20	0.00	101.57	101.83	099.95	100.60	
3	21.40	0.00	098.74	097.48	21.70	0.00	098.96	099.55	54.30	0.00	100.52	101.17	099.79	100.48	
4	15.30	0.00	098.60	097.62	18.50	0.00	098.93	099.40	54.30	0.00	101.01	101.80	099.80	100.57	
5	14.20	0.00	098.47	098.38	13.20	0.00	098.52	099.51	54.40	0.00	100.62	101.90	099.92	100.56	
6	15.90	0.00	098.46	098.06	14.70	0.00	098.37	098.80	54.90	0.00	101.45	101.89	099.86	100.37	
7	13.70	0.00	098.40	098.13	14.40	0.00	098.17	098.67	55.10	0.00	101.51	102.29	099.71	100.17	
8	12.50	0.00	098.39	097.65	13.00	0.00	098.18	099.20	59.10	0.00	102.68	101.72	100.13	100.16	
9	12.00	0.00	098.43	097.94	12.90	0.00	098.17	099.81	60.20	0.00	102.50	101.61	100.11	100.16	
10	12.00	0.00	098.47	098.63	11.60	0.00	098.16	100.66	60.30	0.00	102.75	101.74	100.41	100.04	
11	13.50	0.00	098.42	099.35	10.00	0.00	098.05	101.55	60.10	0.00	103.30	101.13	100.78	100.39	
12	11.90	0.00	098.31	100.16	9.80	0.00	098.12	102.55	60.30	0.00	103.26	101.48	100.83	100.97	
13	11.90	0.00	098.36	100.96	9.80	0.00	097.97	102.06	67.50	0.00	104.02	102.66	101.20	101.28	
14	12.00	0.00	098.23	099.87	9.90	0.00	097.85	102.08	69.60	0.00	107.44	100.96	101.40	101.76	
15	12.00	0.00	098.09	099.46	11.20	0.00	097.82	102.17	69.70	0.00	106.44	105.73	101.57	101.84	
16	13.70	0.00	098.26	099.57	9.80	0.00	098.28	103.07	69.80	0.00	105.59	106.77	101.38	101.90	
17	12.00	0.00	098.30	100.05	9.50	0.00	098.47	102.63	74.60	0.00	102.03	106.59	101.31	101.98	
18	12.30	0.00	098.36	099.37	9.50	0.00	098.27	101.92	75.20	0.00	102.19	105.45	101.47	102.17	
19	13.80	0.00	098.38	098.13	12.50	0.00	098.01	101.39	75.90	0.00	102.31	104.97	101.36	102.42	
20	15.10	0.00	098.18	097.67	12.60	0.00	098.07	101.53	77.30	0.00	101.92	105.03	101.10	102.31	
21	13.80	0.00	098.21	098.43	12.80	0.00	097.93	101.08	77.20	0.00	102.16	104.12	100.82	102.25	
22	13.50	0.00	098.03	098.04	13.90	0.00	097.84	100.31	76.10	0.00	104.86	104.35	100.54	102.18	
23	13.40	0.00	098.05	097.50	12.20	0.00	097.97	100.03	55.50	0.00	104.54	104.20	100.38	102.02	
24	13.60	0.00	098.05	097.31	12.20	0.00	097.77	099.75	54.30	0.00	103.86	*****	100.21	102.02	

08 SEP 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

08 SEP 2001

	DWORSHAK			STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.
1	1.40	0.00	103.76	098.84	?UNDEF	?UNDEF	14.00	0.00	098.81	096.95	13.30	0.00	099.61	098.11
2	1.40	0.00	103.88	098.71	?UNDEF	?UNDEF	14.20	0.00	098.77	096.80	13.20	0.00	099.44	098.09
3	1.40	0.00	103.84	098.57	?UNDEF	?UNDEF	14.00	0.00	098.54	096.77	13.20	0.00	099.33	098.22
4	1.40	0.00	103.81	098.40	?UNDEF	?UNDEF	14.00	0.00	098.44	096.65	14.80	0.00	099.21	098.22
5	1.40	0.00	103.73	098.25	?UNDEF	?UNDEF	14.20	0.00	098.41	096.62	13.50	0.00	099.05	097.94
6	1.40	0.00	103.74	098.08	?UNDEF	?UNDEF	14.00	0.00	098.84	097.04	13.30	0.00	099.03	097.88
7	1.40	0.00	103.89	098.16	?UNDEF	?UNDEF	12.70	0.00	099.02	096.98	14.00	0.00	099.00	098.01
8	1.40	0.00	104.08	099.15	?UNDEF	?UNDEF	12.80	0.00	099.02	097.11	12.40	0.00	098.99	097.89
9	1.40	0.00	104.31	100.21	?UNDEF	?UNDEF	12.60	0.00	098.93	097.67	12.50	0.00	098.99	098.16
10	1.40	0.00	104.94	101.24	?UNDEF	?UNDEF	14.30	0.00	098.96	098.08	14.20	0.00	099.03	098.58
11	1.40	0.00	105.74	102.33	?UNDEF	?UNDEF	12.70	0.00	099.40	098.96	12.50	0.00	099.27	098.71
12	1.40	0.00	106.67	103.41	?UNDEF	?UNDEF	12.70	0.00	099.76	099.37	12.40	0.00	099.23	099.04
13	1.40	0.00	107.51	104.30	?UNDEF	?UNDEF	12.70	0.00	099.44	099.44	12.50	0.00	099.16	099.16
14	1.40	0.00	107.90	104.79	?UNDEF	?UNDEF	12.90	0.00	099.83	099.40	12.50	0.00	099.01	099.35
15	1.40	0.00	108.21	105.15	?UNDEF	?UNDEF	14.40	0.00	100.59	099.36	14.30	0.00	100.04	099.72
16	1.40	0.00	108.21	105.41	?UNDEF	?UNDEF	12.70	0.00	100.83	099.84	12.60	0.00	100.39	099.71
17	1.40	0.00	107.74	105.04	?UNDEF	?UNDEF	12.60	0.00	100.66	099.68	12.50	0.00	100.78	099.92
18	1.40	0.00	107.15	103.58	?UNDEF	?UNDEF	12.60	0.00	100.31	099.10	12.50	0.00	100.89	099.87
19	1.40	0.00	107.74	102.69	?UNDEF	?UNDEF	12.90	0.00	100.00	098.47	12.60	0.00	100.64	099.83
20	1.40	0.00	105.26	102.02	?UNDEF	?UNDEF	14.00	0.00	100.12	098.24	13.90	0.00	100.54	099.69
21	1.40	0.00	104.90	101.19	?UNDEF	?UNDEF	14.00	0.00	100.42	097.96	13.70	0.00	100.56	099.29
22	1.40	0.00	104.76	100.61	?UNDEF	?UNDEF	14.00	0.00	095.86	098.14	13.70	0.00	100.44	099.37
23	1.40	0.00	104.76	100.26	?UNDEF	?UNDEF	14.80	0.00	100.01	098.00	14.40	0.00	100.32	099.10
24	1.40	0.00	104.75	099.72	?UNDEF	?UNDEF	15.00	0.00	100.08	097.92	14.70	0.00	100.23	099.14

HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO	
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	14.00	0.00	099.31	097.15	19.70	0.00	098.16	098.19	55.50	0.00	099.71	102.18	099.76	099.47
2	13.80	0.00	099.30	097.07	18.20	0.00	097.71	098.20	55.50	0.00	099.86	102.02	099.63	099.49
3	13.80	0.00	099.16	097.07	18.30	0.00	097.72	098.20	55.40	0.00	099.57	100.44	099.49	099.18
4	14.10	0.00	099.20	097.05	18.30	0.00	097.72	098.31	55.20	0.00	099.32	099.91	099.37	098.94
5	13.90	0.00	098.87	097.01	18.70	0.00	097.43	098.57	55.30	0.00	099.18	099.75	099.24	098.80
6	14.30	0.00	098.69	096.93	18.30	0.00	097.12	098.01	55.20	0.00	099.26	099.46	099.07	098.71
7	13.70	0.00	098.54	096.93	12.90	0.00	096.81	097.98	55.20	0.00	098.97	099.67	098.90	098.68
8	13.60	0.00	098.54	097.06	12.70	0.00	096.72	098.39	55.30	0.00	098.96	099.56	098.90	098.56
9	15.00	0.00	098.43	097.52	12.80	0.00	096.86	098.74	54.90	0.00	099.11	099.71	099.31	098.70
10	13.50	0.00	098.46	099.05	12.90	0.00	096.59	099.43	54.50	0.00	099.43	099.62	099.46	099.10
11	13.70	0.00	098.51	099.47	13.00	0.00	096.52	099.96	54.40	0.00	099.51	099.64	099.90	099.59
12	13.40	0.00	098.66	099.43	12.90	0.00	096.50	100.60	54.30	0.00	099.59	099.66	100.71	099.97
13	14.90	0.00	098.85	099.96	14.50	0.00	096.55	101.21	54.20	0.00	100.44	099.88	100.94	100.32
14	13.40	0.00	098.92	100.36	13.00	0.00	096.68	101.38	54.10	0.00	101.63	099.71	100.77	100.56
15	15.00	0.00	098.92	100.20	14.70	0.00	096.89	101.89	54.30	0.00	101.76	099.83	100.67	100.56
16	13.50	0.00	098.76	100.91	13.00	0.00	097.29	101.45	54.70	0.00	103.02	099.81	100.53	100.64
17	13.70	0.00	098.72	101.00	13.00	0.00	097.27	101.48	54.60	0.00	102.88	100.07	100.17	100.64
18	13.60	0.00	098.69	099.76	13.00	0.00	097.23	101.96	55.10	0.00	101.49	100.00	100.18	100.77
19	13.60	0.00	098.77	099.07	13.00	0.00	097.17	101.24	55.70	0.00	100.37	100.05	100.24	100.86
20	15.20	0.00	098.77	098.37	14.70	0.00	097.48	100.59	56.00	0.00	100.47	099.97	100.14	101.10
21	13.90	0.00	098.79	098.84	12.80	0.00	097.86	100.60	55.40	0.00	100.56	099.99	100.01	101.13
22	14.10	0.00	098.83	097.84	12.90	0.00	098.05	099.61	55.10	0.00	101.18	100.68	100.07	101.18
23	13.90	0.00	098.86	097.75	13.00	0.00	098.52	099.24	55.30	0.00	100.40	101.27	100.22	101.07
24	13.80	0.00	098.74	097.60	13.60	0.00	099.08	100.11	53.10	0.00	100.56	101.05	100.36	101.07

07 SEP 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

07 SEP 2001

	DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	
1	1.40	0.00	104.44	099.36	?UNDEF	?UNDEF	14.20	0.00	099.02	097.67	13.90	0.00	098.96	098.51	
2	1.40	0.00	104.26	099.01	?UNDEF	?UNDEF	16.00	0.00	098.95	097.52	15.30	0.00	098.96	098.49	
3	1.40	0.00	104.05	099.02	?UNDEF	?UNDEF	15.00	0.00	098.70	097.45	12.90	0.00	098.74	098.47	
4	1.40	0.00	104.03	098.74	?UNDEF	?UNDEF	15.20	0.00	098.76	097.27	12.50	0.00	098.58	098.29	
5	1.40	0.00	104.12	098.72	?UNDEF	?UNDEF	15.40	0.00	098.59	097.21	12.60	0.00	098.50	098.04	
6	1.40	0.00	104.03	098.39	?UNDEF	?UNDEF	17.10	0.00	098.50	097.24	15.30	0.00	098.42	097.99	
7	1.40	0.00	103.92	098.57	?UNDEF	?UNDEF	17.10	0.00	098.31	097.06	18.50	0.00	098.36	097.92	
8	1.40	0.00	103.91	099.64	?UNDEF	?UNDEF	16.90	0.00	098.35	097.14	18.70	0.00	098.45	097.98	
9	1.40	0.00	104.24	100.78	?UNDEF	?UNDEF	18.90	0.00	098.31	097.37	19.00	0.00	098.41	098.10	
10	1.50	0.00	105.04	101.40	?UNDEF	?UNDEF	17.00	0.00	098.33	098.08	18.70	0.00	098.39	098.21	
11	1.40	0.00	105.71	102.32	?UNDEF	?UNDEF	17.30	0.00	098.35	098.62	18.70	0.00	098.35	098.23	
12	1.40	0.00	106.38	102.80	?UNDEF	?UNDEF	17.50	0.00	098.27	098.57	18.80	0.00	098.23	098.37	
13	1.40	0.00	106.34	103.04	?UNDEF	?UNDEF	17.40	0.00	098.19	098.54	18.70	0.00	098.21	098.33	
14	1.40	0.00	106.34	103.61	?UNDEF	?UNDEF	15.10	0.00	098.69	098.53	20.70	0.00	098.32	098.51	
15	1.40	0.00	106.49	104.09	?UNDEF	?UNDEF	15.00	0.00	099.41	098.45	18.80	0.00	098.32	098.76	
16	1.40	0.00	106.37	104.09	?UNDEF	?UNDEF	15.60	0.00	099.58	098.24	18.70	0.00	098.60	098.82	
17	1.40	0.00	106.13	103.69	?UNDEF	?UNDEF	14.90	0.00	099.97	098.06	18.70	0.00	099.13	098.98	
18	1.40	0.00	105.44	101.93	?UNDEF	?UNDEF	13.00	0.00	099.96	097.69	19.10	0.00	099.27	098.87	
19	1.40	0.00	106.13	101.29	?UNDEF	?UNDEF	13.10	0.00	100.09	097.27	18.90	0.00	099.00	098.72	
20	1.40	0.00	104.25	100.46	?UNDEF	?UNDEF	12.90	0.00	099.92	096.98	18.60	0.00	099.11	098.58	
21	1.40	0.00	104.06	099.99	?UNDEF	?UNDEF	15.70	0.00	099.59	097.58	18.60	0.00	099.87	098.50	
22	1.40	0.00	103.86	099.64	?UNDEF	?UNDEF	15.60	0.00	099.69	097.25	15.60	0.00	099.77	098.33	
23	1.40	0.00	103.84	099.37	?UNDEF	?UNDEF	13.80	0.00	099.30	097.42	14.90	0.00	099.80	098.30	
24	1.40	0.00	103.95	099.03	?UNDEF	?UNDEF	13.90	0.00	099.10	097.25	13.90	0.00	099.76	098.14	
	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT	
1	13.60	0.00	097.46	096.40	9.50	0.00	096.98	098.53	63.20	0.00	100.63	100.61	099.80	100.60	
2	13.70	0.00	097.39	096.29	12.30	0.00	096.98	098.45	63.50	0.00	100.49	100.41	099.75	100.30	
3	15.20	0.00	097.64	096.29	10.90	0.00	096.95	098.45	62.60	0.00	100.20	100.54	099.61	100.26	
4	13.70	0.00	097.44	096.74	9.40	0.00	096.76	098.36	61.80	0.00	100.16	100.49	099.54	099.92	
5	13.60	0.00	097.36	096.39	9.20	0.00	096.67	098.18	66.30	0.00	100.08	100.28	099.58	099.87	
6	13.70	0.00	097.26	096.09	9.30	0.00	096.32	098.37	76.50	0.00	099.85	100.05	099.41	099.51	
7	15.50	0.00	097.18	096.12	12.90	0.00	096.36	098.33	98.40	0.00	099.79	100.15	099.32	099.19	
8	18.20	0.00	097.13	096.57	14.40	0.00	096.42	099.80	99.00	0.00	099.71	100.07	099.24	099.01	
9	18.70	0.00	096.98	096.79	13.30	0.00	096.53	099.05	70.60	0.00	099.55	100.04	099.46	099.05	
10	19.90	0.00	096.93	097.11	17.50	0.00	096.64	099.59	68.90	0.00	099.84	099.99	099.71	099.16	
11	18.40	0.00	096.99	098.44	18.00	0.00	096.40	099.29	61.10	0.00	099.70	100.41	100.10	099.10	
12	18.30	0.00	097.01	098.12	18.00	0.00	096.45	100.15	60.90	0.00	099.71	100.29	100.18	099.42	
13	18.40	0.00	098.04	098.16	18.10	0.00	096.85	099.56	60.70	0.00	099.47	100.18	100.20	099.60	
14	18.40	0.00	098.08	098.20	18.40	0.00	097.12	099.64	56.90	0.00	099.50	100.36	100.39	099.50	
15	18.70	0.00	099.03	098.25	19.60	0.00	097.32	099.51	56.30	0.00	099.53	100.54	100.58	099.83	
16	20.10	0.00	099.44	098.38	18.10	0.00	097.32	099.56	56.30	0.00	102.45	100.55	100.44	099.72	
17	21.60	0.00	100.01	098.39	18.10	0.00	097.04	099.35	56.10	0.00	103.18	100.21	100.24	099.58	
18	21.60	0.00	100.28	098.41	20.40	0.00	097.39	099.55	56.10	0.00	102.55	100.08	100.25	099.85	
19	21.70	0.00	100.29	098.06	20.90	0.00	098.06	099.31	56.20	0.00	102.69	100.08	100.12	099.92	
20	21.60	0.00	100.16	097.71	20.60	0.00	098.14	098.76	56.60	0.00	102.56	100.21	100.12	099.89	
21	23.40	0.00	099.95	097.30	20.60	0.00	098.61	098.44	56.30	0.00	102.01	100.17	099.84	099.88	
22	19.90	0.00	099.83	097.47	20.50	0.00	098.61	098.29	56.10	0.00	101.73	099.89	099.76	099.97	
23	14.20	0.00	099.79	097.13	18.30	0.00	098.34	098.25	56.20	0.00	100.71	102.22	099.90	099.93	
24	13.90	0.00	099.48	097.17	18.50	0.00	098.29	098.39	56.10	0.00	100.55	102.47	099.95	099.93	

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WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

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	DWORSHAK			STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.40	0.00	104.30	098.19	?UNDEF	?UNDEF	14.10	0.00	099.45	097.33	13.80	0.00	100.12	099.01
2	1.40	0.00	104.12	098.04	?UNDEF	?UNDEF	14.10	0.00	099.37	097.16	13.50	0.00	099.95	098.97
3	1.40	0.00	104.15	098.00	?UNDEF	?UNDEF	14.10	0.00	099.34	097.17	12.60	0.00	099.75	098.81
4	1.40	0.00	104.20	098.09	?UNDEF	?UNDEF	14.00	0.00	098.99	097.07	13.80	0.00	099.75	098.75
5	1.40	0.00	104.25	098.04	?UNDEF	?UNDEF	14.30	0.00	098.79	097.04	13.90	0.00	099.53	098.51
6	1.40	0.00	104.06	097.69	?UNDEF	?UNDEF	17.20	0.00	098.79	097.05	14.00	0.00	099.51	098.38
7	1.40	0.00	103.82	097.72	?UNDEF	?UNDEF	17.40	0.00	098.71	097.23	16.50	0.00	099.35	098.34
8	1.40	0.00	103.91	098.77	?UNDEF	?UNDEF	16.40	0.00	098.54	097.46	16.00	0.00	099.25	098.28
9	1.40	0.00	104.24	099.68	?UNDEF	?UNDEF	19.40	0.00	098.70	098.22	16.00	0.00	099.15	098.26
10	1.40	0.00	104.94	100.23	?UNDEF	?UNDEF	21.40	0.00	098.67	099.29	16.00	0.00	099.13	098.42
11	1.40	0.00	105.66	100.96	?UNDEF	?UNDEF	20.50	0.00	098.78	099.61	16.10	0.00	099.31	098.56
12	1.40	0.00	106.45	101.97	?UNDEF	?UNDEF	26.20	0.00	099.13	099.68	19.70	0.00	099.32	098.66
13	1.40	0.00	106.87	102.65	?UNDEF	?UNDEF	26.50	0.00	099.32	099.56	18.20	0.00	099.40	098.81
14	1.40	0.00	107.09	103.26	?UNDEF	?UNDEF	20.00	0.00	099.33	099.42	20.10	0.00	099.37	098.88
15	1.40	0.00	107.09	104.03	?UNDEF	?UNDEF	19.80	0.00	099.56	099.40	23.10	0.00	099.40	098.97
16	1.40	0.00	106.88	104.01	?UNDEF	?UNDEF	15.00	0.00	099.73	099.87	21.90	0.00	099.44	099.03
17	1.40	0.00	106.84	103.25	?UNDEF	?UNDEF	16.20	0.00	099.35	099.60	19.10	0.00	099.50	099.08
18	1.40	0.00	106.45	102.20	?UNDEF	?UNDEF	14.50	0.00	099.17	099.57	16.30	0.00	099.42	099.14
19	1.30	0.00	106.84	101.27	?UNDEF	?UNDEF	12.90	0.00	099.08	098.43	12.80	0.00	099.38	098.93
20	1.40	0.00	104.84	100.72	?UNDEF	?UNDEF	12.80	0.00	099.54	097.92	14.20	0.00	099.40	098.86
21	1.40	0.00	104.60	100.31	?UNDEF	?UNDEF	14.30	0.00	099.93	097.54	13.20	0.00	099.42	098.72
22	1.40	0.00	104.47	100.20	?UNDEF	?UNDEF	14.10	0.00	099.95	097.52	13.30	0.00	099.32	098.58
23	1.40	0.00	104.61	099.91	?UNDEF	?UNDEF	15.90	0.00	099.77	097.48	16.00	0.00	099.18	098.58
24	1.40	0.00	104.60	099.66	?UNDEF	?UNDEF	14.40	0.00	099.48	097.84	14.40	0.00	099.14	098.61

	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO	
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT		
1	13.80	0.00	097.54	095.82	12.10	0.00	096.62	096.83	63.10	0.00	100.40	101.02	100.20	101.02
2	13.90	0.00	096.93	095.90	9.50	0.00	097.00	096.65	73.00	0.00	100.26	101.13	100.22	100.74
3	15.50	0.00	096.78	095.83	9.40	0.00	097.24	096.63	70.00	0.00	100.09	100.97	100.13	100.42
4	13.90	0.00	096.61	096.54	10.70	0.00	097.10	096.87	104.50	0.00	099.96	100.93	100.26	100.19
5	13.90	0.00	096.57	095.84	9.30	0.00	096.89	096.81	109.80	0.00	099.91	100.78	100.21	099.87
6	13.90	0.00	096.52	095.79	14.20	0.00	097.03	097.22	125.50	0.00	099.92	100.75	100.13	099.74
7	13.80	0.00	096.35	095.56	12.90	0.00	096.86	097.68	134.00	0.00	099.97	100.59	100.18	099.54
8	13.80	0.00	096.26	095.79	12.80	0.00	096.66	098.30	119.20	0.00	099.95	100.69	100.14	099.47
9	15.50	0.00	096.67	096.35	14.10	0.00	096.77	099.31	101.20	0.00	099.89	100.81	100.10	099.59
10	13.80	0.00	096.70	097.91	12.60	0.00	096.63	099.60	100.40	0.00	099.84	100.81	100.39	099.75
11	13.80	0.00	097.01	098.54	12.60	0.00	096.82	099.83	91.00	0.00	099.83	100.66	100.65	100.01
12	14.70	0.00	097.05	099.03	12.60	0.00	096.88	099.67	90.10	0.00	099.82	100.73	100.72	100.44
13	16.80	0.00	097.09	099.40	12.80	0.00	096.79	100.60	89.00	0.00	099.63	100.83	100.81	100.91
14	16.30	0.00	097.00	099.47	12.60	0.00	097.01	099.96	90.20	0.00	100.34	100.91	100.92	101.39
15	21.20	0.00	097.10	098.80	14.20	0.00	097.05	100.16	99.10	0.00	102.07	101.03	101.01	102.03
16	21.40	0.00	097.17	098.64	12.90	0.00	097.14	100.07	98.80	0.00	101.83	101.10	100.97	102.39
17	21.50	0.00	097.40	098.32	11.30	0.00	096.70	099.88	88.70	0.00	101.64	101.21	100.79	102.56
18	18.10	0.00	097.44	097.95	11.10	0.00	096.72	099.80	86.60	0.00	101.56	100.94	100.80	102.51
19	15.40	0.00	097.37	097.33	11.40	0.00	096.53	100.21	89.40	0.00	101.58	101.09	100.74	102.43
20	15.30	0.00	097.36	096.76	11.20	0.00	096.49	100.56	91.00	0.00	101.45	100.98	100.45	102.01
21	15.50	0.00	097.55	096.51	12.60	0.00	096.96	101.41	106.40	0.00	101.39	100.73	100.26	101.53
22	15.20	0.00	097.50	096.40	12.60	0.00	097.18	099.39	103.30	0.00	101.19	100.69	100.20	101.33
23	14.70	0.00	097.51	096.53	12.90	0.00	097.18	098.59	102.50	0.00	101.02	100.50	099.96	101.21
24	14.70	0.00	097.49	096.48	12.50	0.00	097.01	098.53	74.20	0.00	100.77	100.32	099.93	101.21

05 SEP 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

05 SEP 2001

	DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE				
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.		ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT		TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.		TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.50	0.00	000.00	:	098.92	000.00	099.49	:	14.50	0.00	102.01	098.67	:	16.40	0.00	101.29	099.62
2	1.50	0.00	000.00	:	098.76	000.00	099.17	:	14.50	0.00	101.22	098.36	:	16.00	0.00	100.82	099.58
3	1.50	0.00	000.00	:	098.60	000.00	098.61	:	14.50	0.00	101.04	098.21	:	17.40	0.00	100.52	099.54
4	1.40	0.00	000.00	:	098.53	000.00	098.26	:	14.80	0.00	100.35	097.87	:	14.50	0.00	100.39	099.40
5	1.40	0.00	000.00	:	098.52	000.00	097.96	:	14.30	0.00	100.42	097.71	:	14.40	0.00	100.40	099.52
6	1.40	0.00	000.00	:	098.49	000.00	097.75	:	13.70	0.00	100.31	097.77	:	14.40	0.00	100.38	099.63
7	1.40	0.00	000.00	:	098.40	000.00	098.54	:	13.60	0.00	100.15	097.85	:	14.00	0.00	100.27	099.55
8	1.40	0.00	000.00	:	098.86	000.00	099.34	:	13.50	0.00	100.01	098.07	:	12.60	0.00	100.48	099.91
9	1.40	0.00	000.00	:	099.42	000.00	100.65	:	14.40	0.00	100.08	098.56	:	12.50	0.00	100.43	099.84
10	1.40	0.00	105.87	:	099.95	?UNDEF	?UNDEF	:	14.20	0.00	100.03	098.36	:	14.20	0.00	100.27	099.95
11	1.40	0.00	106.78	:	100.31	?UNDEF	?UNDEF	:	15.50	0.00	099.85	098.48	:	12.50	0.00	100.64	100.07
12	1.40	0.00	106.83	:	101.13	?UNDEF	?UNDEF	:	16.30	0.00	099.99	098.62	:	12.60	0.00	100.67	100.49
13	1.40	0.00	106.80	:	101.34	?UNDEF	?UNDEF	:	16.40	0.00	100.04	098.93	:	12.70	0.00	100.71	100.80
14	1.40	0.00	106.65	:	101.48	?UNDEF	?UNDEF	:	20.20	0.00	100.19	099.15	:	13.00	0.00	100.86	100.70
15	1.40	0.00	106.38	:	101.63	?UNDEF	?UNDEF	:	18.30	0.00	100.65	099.97	:	14.20	0.00	100.91	100.78
16	1.40	0.00	106.41	:	102.51	?UNDEF	?UNDEF	:	18.80	0.00	100.82	099.58	:	16.50	0.00	101.05	100.88
17	1.40	0.00	105.86	:	101.56	?UNDEF	?UNDEF	:	19.10	0.00	100.85	099.22	:	16.40	0.00	100.87	100.51
18	1.40	0.00	105.67	:	100.49	?UNDEF	?UNDEF	:	19.10	0.00	100.77	098.88	:	19.40	0.00	100.90	100.44
19	1.40	0.00	105.86	:	099.77	?UNDEF	?UNDEF	:	19.40	0.00	100.34	098.44	:	19.80	0.00	100.79	100.33
20	1.40	0.00	104.95	:	099.19	?UNDEF	?UNDEF	:	19.20	0.00	100.54	098.14	:	19.80	0.00	100.58	099.97
21	1.40	0.00	104.58	:	098.74	?UNDEF	?UNDEF	:	17.50	0.00	100.35	098.20	:	20.20	0.00	100.48	099.76
22	1.40	0.00	104.28	:	098.83	?UNDEF	?UNDEF	:	17.50	0.00	100.18	097.89	:	19.90	0.00	100.52	099.56
23	1.40	0.00	104.28	:	098.55	?UNDEF	?UNDEF	:	17.30	0.00	100.01	097.71	:	19.70	0.00	100.43	099.36
24	1.40	0.00	104.37	:	098.32	?UNDEF	?UNDEF	:	14.20	0.00	099.65	097.35	:	15.70	0.00	100.13	099.32

HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO	
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	13.60	0.00	099.92	096.53	12.60	0.00	099.83	099.64	62.50	0.00	103.47	102.04	101.25	102.54
2	15.00	0.00	099.44	096.32	12.50	0.00	099.81	100.27	63.50	0.00	103.03	102.02	101.19	102.38
3	13.50	0.00	099.30	096.64	14.10	0.00	099.64	099.29	64.00	0.00	102.56	101.69	100.88	102.22
4	13.50	0.00	098.99	096.77	12.60	0.00	099.53	099.20	67.40	0.00	101.99	101.82	100.76	101.96
5	13.70	0.00	098.35	096.32	12.60	0.00	099.23	098.88	102.10	0.00	101.95	101.68	100.71	101.66
6	13.40	0.00	098.27	095.98	12.40	0.00	099.19	098.75	102.30	0.00	101.92	101.52	100.55	101.50
7	13.60	0.00	097.41	095.81	12.50	0.00	099.00	098.52	102.60	0.00	102.37	101.40	100.33	101.28
8	13.60	0.00	097.25	096.06	12.50	0.00	099.05	099.51	102.20	0.00	101.76	101.49	100.38	100.93
9	13.70	0.00	097.37	096.17	12.40	0.00	099.03	098.90	93.60	0.00	101.51	101.38	100.51	101.04
10	13.90	0.00	097.32	096.95	12.40	0.00	098.63	099.16	93.00	0.00	102.57	102.63	100.87	101.14
11	15.10	0.00	097.44	098.14	12.20	0.00	098.36	099.28	93.20	0.00	102.60	102.50	101.01	101.43
12	15.10	0.00	096.99	099.36	12.30	0.00	097.67	099.59	97.50	0.00	102.63	102.14	101.34	101.71
13	13.50	0.00	096.99	099.59	12.20	0.00	097.60	099.73	103.10	0.00	102.40	102.30	101.53	102.18
14	13.50	0.00	097.12	099.64	12.20	0.00	097.32	100.47	107.40	0.00	102.12	102.31	101.51	102.60
15	15.20	0.00	097.18	099.32	14.20	0.00	097.09	100.20	111.40	0.00	102.53	101.95	101.58	102.88
16	17.10	0.00	096.53	098.57	22.80	0.00	097.05	100.23	112.40	0.00	102.57	102.27	101.63	102.88
17	17.10	0.00	096.38	098.85	18.20	0.00	097.45	099.91	112.30	0.00	103.15	102.01	101.47	102.93
18	18.30	0.00	096.57	098.88	18.20	0.00	097.78	100.49	112.10	0.00	102.92	102.05	101.37	103.06
19	18.30	0.00	097.10	097.37	19.70	0.00	097.86	099.40	112.60	0.00	102.76	101.92	101.25	102.81
20	18.40	0.00	097.68	096.67	18.40	0.00	097.26	098.67	113.10	0.00	102.41	101.83	100.91	102.30
21	18.50	0.00	097.60	096.39	25.10	0.00	096.99	097.77	121.20	0.00	102.05	101.65	100.66	101.96
22	21.60	0.00	097.71	096.30	25.00	0.00	096.16	097.94	98.80	0.00	101.56	101.53	100.46	101.75
23	21.60	0.00	097.62	096.02	24.90	0.00	096.42	097.17	94.20	0.00	101.06	101.26	100.30	101.38
24	14.10	0.00	097.57	095.99	18.30	0.00	096.78	097.01	60.80	0.00	100.54	101.14	100.10	101.38

04 SEP 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

04 SEP 2001

	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.50	0.00	103.47	098.93	100.18	099.03	12.70	0.00	102.02	098.63	12.50	0.00	100.30	098.75
2	1.50	0.00	103.32	098.72	100.20	098.56	12.40	0.00	102.15	098.37	12.40	0.00	100.23	098.51
3	1.50	0.00	103.16	098.60	100.04	098.17	14.30	0.00	102.42	099.19	12.40	0.00	100.40	098.38
4	1.50	0.00	103.31	098.57	100.10	097.77	14.30	0.00	102.54	098.76	12.60	0.00	100.50	098.19
5	1.50	0.00	103.44	098.53	100.16	097.65	12.40	0.00	102.67	098.74	12.40	0.00	100.51	098.10
6	1.50	0.00	103.29	098.52	100.15	097.37	12.40	0.00	102.64	098.45	12.40	0.00	100.47	098.02
7	1.50	0.00	103.27	098.49	100.33	097.90	12.60	0.00	102.35	098.29	12.40	0.00	100.46	097.74
8	1.50	0.00	103.57	099.77	100.14	099.11	12.40	0.00	101.67	098.44	12.40	0.00	100.47	098.13
9	1.50	0.00	104.03	100.75	100.10	101.16	12.50	0.00	101.83	098.99	12.80	0.00	100.50	098.30
10	1.60	0.00	104.11	101.34	100.18	102.79	12.40	0.00	102.27	099.42	12.60	0.00	100.90	098.63
11	1.50	0.00	104.03	102.27	100.05	104.45	12.40	0.00	102.07	099.60	12.90	0.00	101.09	099.07
12	1.50	0.00	105.13	102.91	100.22	106.05	12.70	0.00	103.17	099.92	13.80	0.00	101.18	099.22
13	1.50	0.00	107.09	103.51	100.18	107.51	12.50	0.00	103.01	100.12	14.30	0.00	101.48	099.58
14	1.50	0.00	108.14	104.14	100.27	108.57	12.50	0.00	102.94	100.20	14.60	0.00	101.71	099.64
15	1.50	0.00	108.25	104.82	100.34	108.34	14.20	0.00	103.71	101.23	14.70	0.00	101.75	099.85
16	1.50	0.00	108.32	104.97	100.45	108.27	12.50	0.00	103.35	100.89	12.70	0.00	101.97	100.01
17	1.50	0.00	108.32	104.75	100.47	107.24	16.10	0.00	103.27	100.24	12.60	0.00	102.01	100.11
18	1.50	0.00	107.64	102.98	100.33	106.01	12.50	0.00	102.45	100.16	12.60	0.00	101.92	100.12
19	1.50	0.00	108.32	102.20	000.00	104.39	12.80	0.00	102.10	099.28	12.60	0.00	101.70	100.13
20	1.50	0.00	105.63	101.12	000.00	102.86	13.20	0.00	102.20	098.95	12.90	0.00	101.63	100.00
21	1.50	0.00	105.06	100.70	000.00	101.58	13.90	0.00	102.40	098.61	15.80	0.00	101.70	099.97
22	1.50	0.00	000.00	100.23	000.00	101.03	16.50	0.00	102.38	098.76	14.70	0.00	101.83	099.78
23	1.50	0.00	104.98	099.66	000.00	100.46	16.80	0.00	102.60	098.69	15.70	0.00	101.72	099.87
24	1.50	0.00	104.96	099.25	000.00	099.85	14.80	0.00	102.15	098.65	16.00	0.00	101.66	099.77

HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO	
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	13.50	0.00	101.06	096.53	13.00	0.00	100.09	098.96	60.60	0.00	102.17	102.86	101.58	101.86
2	13.50	0.00	101.07	096.56	13.10	0.00	100.08	098.85	60.00	0.00	102.38	103.31	101.41	101.85
3	13.50	0.00	100.78	096.51	12.90	0.00	099.81	098.84	60.10	0.00	103.21	105.01	101.29	101.72
4	13.50	0.00	100.79	096.44	13.00	0.00	099.56	098.68	59.90	0.00	103.21	104.61	101.25	101.72
5	13.70	0.00	099.68	096.60	13.00	0.00	099.72	098.67	60.50	0.00	103.09	104.85	101.15	101.62
6	13.50	0.00	099.77	096.56	13.00	0.00	100.08	098.65	79.30	0.00	103.12	104.95	101.19	101.18
7	13.40	0.00	099.76	096.63	13.10	0.00	099.65	098.79	82.20	0.00	102.82	104.63	101.15	100.89
8	13.70	0.00	099.77	096.78	13.30	0.00	099.49	099.19	80.70	0.00	102.98	104.75	101.42	100.71
9	13.90	0.00	099.77	097.24	13.10	0.00	099.55	099.53	78.90	0.00	103.28	105.07	101.69	100.64
10	13.90	0.00	099.68	098.17	14.60	0.00	099.77	100.36	79.20	0.00	103.42	105.45	?UNDEF	100.76
11	14.10	0.00	099.56	099.25	13.10	0.00	099.83	100.36	79.30	0.00	103.98	104.70	?UNDEF	101.05
12	13.70	0.00	099.61	099.52	13.20	0.00	099.88	100.79	78.70	0.00	103.75	103.73	?UNDEF	101.67
13	13.60	0.00	099.70	099.36	13.40	0.00	099.95	101.56	97.20	0.00	105.30	102.59	?UNDEF	102.28
14	13.90	0.00	099.48	099.62	13.10	0.00	100.29	102.45	98.20	0.00	105.68	102.96	103.25	102.78
15	13.80	0.00	099.41	099.21	13.10	0.00	100.25	101.85	98.90	0.00	104.52	103.58	103.06	103.25
16	15.30	0.00	099.91	099.70	12.70	0.00	100.04	101.78	96.90	0.00	105.59	104.17	102.98	103.72
17	13.30	0.00	099.81	099.80	11.20	0.00	099.83	101.65	98.60	0.00	105.09	104.50	103.06	104.02
18	13.70	0.00	100.35	099.54	11.40	0.00	099.87	101.42	98.40	0.00	105.26	104.82	103.10	104.12
19	13.50	0.00	100.13	098.29	12.90	0.00	100.07	101.23	79.20	0.00	105.69	104.69	103.07	104.14
20	13.50	0.00	099.61	097.49	14.40	0.00	099.87	101.41	79.30	0.00	105.86	104.45	102.74	103.77
21	13.50	0.00	099.30	097.02	12.80	0.00	100.16	100.56	79.30	0.00	106.65	104.30	102.31	103.38
22	13.70	0.00	099.31	096.78	14.20	0.00	100.16	100.08	67.60	0.00	105.25	103.95	101.73	103.19
23	13.60	0.00	100.73	096.61	12.80	0.00	100.36	100.53	72.80	0.00	105.52	102.90	101.41	102.95
24	15.20	0.00	100.23	096.34	12.40	0.00	100.17	100.08	66.90	0.00	103.95	102.41	101.19	102.95

03 SEP 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

03 SEP 2001

	DWORSHAK			STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPIILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPIILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPIILL KCFS	GAS FB	%SAT. TAILW.
1	1.50	0.00	103.53	097.55	100.27	099.35	12.50	0.00	104.61	098.50	12.90	0.00	102.42	099.58
2	1.50	0.00	103.64	097.24	100.05	098.88	12.60	0.00	104.61	098.33	12.90	0.00	101.93	099.57
3	1.50	0.00	103.58	096.93	100.15	098.60	12.60	0.00	104.73	098.34	13.20	0.00	101.53	099.42
4	1.50	0.00	103.57	096.94	100.19	098.19	12.60	0.00	104.25	098.28	13.00	0.00	101.28	099.25
5	1.50	0.00	103.66	096.80	100.14	097.72	12.80	0.00	103.63	098.10	13.00	0.00	100.94	099.24
6	1.50	0.00	103.62	096.82	100.23	097.51	12.60	0.00	103.74	098.04	13.00	0.00	100.93	099.14
7	1.50	0.00	103.63	097.57	100.18	097.84	12.60	0.00	103.96	098.13	13.00	0.00	101.17	098.98
8	1.50	0.00	103.89	099.77	100.20	099.14	12.70	0.00	104.14	098.47	13.20	0.00	101.67	099.04
9	1.50	0.00	104.17	101.14	100.19	100.85	12.80	0.00	104.69	098.87	13.00	0.00	101.03	099.26
10	1.50	0.00	104.41	101.97	100.07	103.15	14.70	0.00	105.06	099.30	14.50	0.00	101.45	099.65
11	1.50	0.00	105.27	102.62	100.20	104.65	12.80	0.00	104.78	099.79	13.00	0.00	101.56	099.89
12	1.50	0.00	106.03	103.56	100.46	106.16	12.80	0.00	105.06	100.19	13.00	0.00	101.80	100.23
13	1.50	0.00	106.51	104.06	100.27	107.46	12.50	0.00	104.09	100.27	13.20	0.00	102.08	100.27
14	1.50	0.00	106.96	104.60	100.31	108.50	12.40	0.00	103.57	100.34	13.00	0.00	101.83	100.40
15	1.50	0.00	107.01	104.87	100.25	109.07	14.30	0.00	103.21	100.22	14.50	0.00	101.44	100.59
16	1.50	0.00	106.96	105.06	100.45	108.05	12.50	0.00	102.31	100.96	14.50	0.00	101.08	100.39
17	1.50	0.00	106.54	104.65	100.45	107.25	12.40	0.00	102.07	100.61	13.00	0.00	101.02	100.32
18	1.50	0.00	106.01	102.76	100.31	106.08	12.40	0.00	101.72	099.82	13.20	0.00	100.51	100.01
19	1.50	0.00	106.54	101.95	100.07	104.45	12.50	0.00	101.70	099.04	12.90	0.00	100.39	099.84
20	1.50	0.00	104.33	100.87	100.14	102.38	14.50	0.00	101.00	098.71	12.40	0.00	100.61	099.54
21	1.50	0.00	103.81	100.39	100.16	101.23	12.40	0.00	101.51	098.82	12.40	0.00	100.55	099.33
22	1.50	0.00	103.62	100.10	100.10	100.50	12.50	0.00	101.34	098.67	13.90	0.00	100.78	099.17
23	1.50	0.00	103.65	099.70	100.10	099.82	14.10	0.00	102.15	098.90	12.60	0.00	100.95	099.05
24	1.50	0.00	103.47	099.29	100.12	099.30	12.40	0.00	102.05	098.92	13.90	0.00	100.55	098.93

HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO	
	TOTAL DISCH KCFS	SPIILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPIILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPIILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	13.50	0.00	102.58	097.53	18.10	0.00	102.69	101.43	62.80	0.00	101.32	105.64	102.23	101.89
2	13.80	0.00	101.99	097.50	18.30	0.00	102.41	100.85	61.90	0.00	101.86	106.08	102.06	101.63
3	13.70	0.00	101.84	097.41	18.00	0.00	101.28	100.28	62.10	0.00	102.38	103.35	102.12	101.60
4	13.90	0.00	102.01	097.37	18.00	0.00	100.72	100.00	62.00	0.00	102.29	102.92	101.94	101.29
5	13.80	0.00	102.18	097.45	18.10	0.00	100.28	099.81	62.30	0.00	101.57	103.29	101.81	101.15
6	13.80	0.00	102.12	097.41	21.00	0.00	100.27	099.81	70.50	0.00	101.24	103.99	101.88	101.08
7	13.80	0.00	101.10	097.44	13.10	0.00	099.79	099.63	69.20	0.00	101.17	104.75	101.79	100.77
8	14.00	0.00	100.54	097.76	13.20	0.00	099.41	099.69	64.20	0.00	101.55	104.67	101.87	100.81
9	13.80	0.00	101.17	098.28	14.60	0.00	099.52	099.69	65.50	0.00	101.14	104.45	101.93	100.72
10	15.30	0.00	101.51	098.93	14.50	0.00	099.19	100.45	66.50	0.00	100.66	104.57	102.30	100.81
11	13.70	0.00	100.17	099.79	14.60	0.00	099.19	100.53	64.20	0.00	100.42	103.37	102.87	101.10
12	13.80	0.00	099.49	101.07	13.00	0.00	099.24	101.01	63.00	0.00	100.73	103.32	103.33	101.42
13	15.60	0.00	099.96	100.80	13.00	0.00	099.05	101.83	78.10	0.00	101.33	103.11	103.11	101.74
14	13.90	0.00	099.99	100.87	14.70	0.00	098.81	102.67	79.10	0.00	103.52	103.45	102.90	102.06
15	15.40	0.00	099.91	100.88	14.30	0.00	098.84	101.53	79.80	0.00	104.23	103.56	103.15	102.38
16	13.90	0.00	098.91	099.65	12.90	0.00	099.32	100.96	93.50	0.00	104.70	103.35	102.93	102.76
17	13.80	0.00	098.66	099.52	13.00	0.00	099.91	101.30	94.00	0.00	105.03	103.37	102.59	102.95
18	14.00	0.00	098.70	098.70	14.50	0.00	099.99	101.64	103.70	0.00	105.24	103.44	102.50	103.08
19	13.90	0.00	099.18	097.60	12.90	0.00	099.73	100.83	103.10	0.00	104.70	103.62	102.29	103.11
20	14.00	0.00	099.34	097.07	13.20	0.00	099.53	100.01	104.10	0.00	103.77	103.31	102.13	102.95
21	16.90	0.00	098.40	097.14	13.00	0.00	099.67	099.97	73.70	0.00	102.10	104.56	102.05	102.81
22	13.80	0.00	099.05	097.45	12.80	0.00	099.47	099.68	60.60	0.00	101.41	104.65	102.05	102.48
23	13.70	0.00	099.05	097.17	13.00	0.00	099.63	099.13	59.70	0.00	101.66	104.61	101.87	102.02
24	13.90	0.00	100.24	096.57	13.10	0.00	099.97	099.13	60.00	0.00	102.02	103.53	101.58	102.02

02 SEP 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

02 SEP 2001

HOUR	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.50	0.00	103.39	098.14	100.08	098.06	13.90	0.00	100.34	098.36	14.70	0.00	098.05	096.79
2	1.50	0.00	103.41	097.92	100.12	097.96	13.90	0.00	099.27	098.29	14.70	0.00	098.00	096.92
3	1.50	0.00	103.38	097.79	100.12	097.64	14.10	0.00	099.50	098.29	14.40	0.00	098.04	096.77
4	1.50	0.00	103.46	097.69	100.20	097.07	14.00	0.00	100.70	098.28	14.50	0.00	098.12	096.79
5	1.50	0.00	103.16	097.58	100.19	096.95	12.50	0.00	100.55	098.28	13.10	0.00	098.13	097.02
6	1.50	0.00	102.99	097.56	100.20	096.79	12.50	0.00	100.42	098.37	12.90	0.00	098.12	097.03
7	1.50	0.00	103.07	097.65	100.31	097.57	12.40	0.00	100.27	098.35	13.10	0.00	098.36	097.02
8	1.50	0.00	103.35	099.93	100.25	098.84	12.80	0.00	100.08	098.56	12.90	0.00	098.47	097.24
9	1.50	0.00	103.79	101.48	100.26	100.90	12.70	0.00	100.75	099.03	13.20	0.00	099.03	097.82
10	1.50	0.00	104.23	102.46	100.14	102.74	14.50	0.00	100.92	099.34	13.20	0.00	100.23	098.09
11	1.50	0.00	105.11	102.93	100.33	104.91	12.70	0.00	101.50	100.05	13.20	0.00	101.01	098.30
12	1.50	0.00	105.66	104.19	100.25	106.34	12.70	0.00	102.13	100.22	13.40	0.00	101.72	098.49
13	1.50	0.00	106.02	104.68	100.01	107.46	13.00	0.00	102.95	100.20	13.20	0.00	101.82	099.34
14	1.50	0.00	106.39	105.52	100.41	108.30	12.80	0.00	103.77	100.23	13.20	0.00	102.84	099.56
15	1.50	0.00	106.77	106.76	100.23	107.97	14.50	0.00	104.00	100.46	14.70	0.00	103.43	100.07
16	1.50	0.00	106.84	105.61	100.33	108.19	12.80	0.00	104.21	100.96	13.20	0.00	104.60	100.13
17	1.50	0.00	106.20	104.95	100.34	107.71	12.40	0.00	104.40	100.58	13.30	0.00	104.92	100.19
18	1.50	0.00	105.54	102.91	100.19	107.06	12.50	0.00	103.51	099.95	13.00	0.00	105.10	100.47
19	1.50	0.00	106.20	101.69	100.27	105.63	12.80	0.00	102.97	099.31	13.00	0.00	104.41	100.65
20	1.50	0.00	104.25	100.70	100.14	102.98	12.50	0.00	103.77	099.03	14.50	0.00	103.47	100.46
21	1.50	0.00	103.80	099.14	100.08	101.95	12.60	0.00	103.38	098.79	13.00	0.00	103.65	100.24
22	1.50	0.00	103.44	098.39	100.14	100.93	12.60	0.00	103.18	098.60	13.10	0.00	103.60	099.95
23	1.50	0.00	103.50	097.93	100.05	100.20	12.50	0.00	104.38	098.72	12.80	0.00	103.29	099.76
24	1.50	0.00	103.59	097.71	100.22	099.74	12.80	0.00	104.61	098.69	12.90	0.00	102.84	099.60
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO	
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	13.40	0.00	095.87	095.91	12.70	0.00	097.98	099.39	62.90	0.00	102.02	102.90	101.83	101.62
2	13.50	0.00	096.15	096.06	12.70	0.00	097.84	098.87	64.20	0.00	101.94	102.62	101.83	101.61
3	13.70	0.00	096.53	095.97	12.60	0.00	098.28	098.71	64.20	0.00	101.94	103.05	101.84	101.52
4	13.50	0.00	096.48	095.95	12.50	0.00	098.52	098.57	64.00	0.00	101.74	103.06	101.83	101.34
5	13.60	0.00	096.51	096.09	12.90	0.00	098.53	098.73	64.50	0.00	101.74	102.90	101.82	101.24
6	13.50	0.00	096.51	096.02	12.70	0.00	098.58	098.75	64.70	0.00	101.73	102.64	101.70	100.84
7	13.50	0.00	096.45	095.97	12.50	0.00	098.56	098.77	71.30	0.00	101.71	102.89	101.79	100.62
8	13.60	0.00	096.45	096.12	12.70	0.00	098.52	098.99	67.50	0.00	101.54	103.41	102.20	100.65
9	13.70	0.00	096.33	096.54	12.70	0.00	098.66	099.20	66.50	0.00	101.51	103.53	102.48	100.66
10	13.40	0.00	097.86	097.22	14.20	0.00	098.81	099.79	66.50	0.00	101.78	103.67	102.74	100.96
11	13.50	0.00	098.85	097.81	13.20	0.00	099.24	100.03	68.30	0.00	101.94	103.88	103.22	101.44
12	13.50	0.00	098.74	098.10	13.10	0.00	099.71	100.72	68.50	0.00	101.85	104.34	103.46	101.74
13	13.50	0.00	098.04	098.50	13.00	0.00	099.61	101.63	68.10	0.00	101.94	103.89	103.62	102.09
14	13.70	0.00	098.74	099.14	13.00	0.00	099.57	102.32	69.10	0.00	102.16	104.38	103.86	102.31
15	15.00	0.00	098.83	099.42	14.50	0.00	099.92	102.05	70.00	0.00	102.36	103.81	103.65	102.24
16	15.00	0.00	099.06	099.52	13.30	0.00	100.94	101.99	68.60	0.00	102.16	104.09	103.60	102.59
17	13.50	0.00	099.34	099.53	13.00	0.00	101.62	101.83	62.20	0.00	101.69	104.02	103.40	102.77
18	13.50	0.00	099.76	099.44	13.00	0.00	101.69	102.05	61.80	0.00	101.74	104.09	103.32	102.98
19	13.50	0.00	100.11	098.64	13.00	0.00	101.74	102.20	61.80	0.00	101.56	103.99	103.23	103.12
20	15.30	0.00	101.27	097.93	14.50	0.00	101.81	101.47	61.90	0.00	102.55	103.69	103.06	103.10
21	13.50	0.00	101.18	098.33	13.30	0.00	101.72	101.14	61.70	0.00	103.42	103.34	102.69	102.90
22	13.50	0.00	101.13	098.18	13.30	0.00	101.43	100.84	61.50	0.00	102.53	102.98	102.37	102.67
23	13.40	0.00	101.69	097.47	18.00	0.00	101.84	101.26	63.70	0.00	101.57	102.82	102.33	102.51
24	13.50	0.00	102.58	097.41	18.00	0.00	102.30	101.03	63.40	0.00	101.25	103.67	102.10	102.51

01 SEP 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

01 SEP 2001

HOUR	DWORSHAK				STREAMFLOW			LOWER GRANITE			LITTLE GOOSE			
	TOTAL DISCH. KCFS	SPIILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPIILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPIILL KCFS	GAS FB	%SAT TAILW.
1	1.60	0.00	101.52	098.81	100.15	098.54	14.20	0.00	104.34	099.46	13.60	0.00	098.75	097.93
2	1.60	0.00	101.51	098.56	100.22	098.23	14.00	0.00	104.12	099.30	13.70	0.00	098.61	097.77
3	1.60	0.00	101.47	098.50	100.00	097.81	14.00	0.00	103.45	098.99	13.70	0.00	098.90	097.80
4	1.60	0.00	101.44	098.34	100.01	097.24	14.00	0.00	102.68	098.98	13.70	0.00	098.88	097.78
5	1.60	0.00	101.31	098.45	100.15	097.24	14.00	0.00	102.39	098.88	15.50	0.00	098.76	097.93
6	1.60	0.00	101.37	098.42	100.16	096.65	14.00	0.00	102.66	099.16	15.30	0.00	098.75	098.09
7	1.60	0.00	101.36	098.67	100.18	097.59	13.50	0.00	102.77	099.24	13.90	0.00	098.75	098.19
8	1.60	0.00	101.58	100.03	100.23	099.46	13.50	0.00	103.68	099.34	13.90	0.00	098.69	098.16
9	1.60	0.00	101.89	101.25	100.23	101.45	13.30	0.00	103.81	099.80	13.90	0.00	098.68	098.00
10	1.60	0.00	102.61	102.23	100.27	102.97	13.30	0.00	104.50	099.99	14.10	0.00	098.87	098.44
11	1.60	0.00	103.20	102.27	100.04	105.58	12.50	0.00	104.73	100.27	12.60	0.00	098.88	098.68
12	1.60	0.00	103.95	103.15	100.41	106.84	12.50	0.00	104.53	100.57	12.50	0.00	099.02	098.83
13	1.60	0.00	104.59	104.05	100.21	108.78	12.50	0.00	104.47	100.63	12.50	0.00	099.12	098.72
14	1.60	0.00	104.89	105.35	100.34	109.41	12.50	0.00	104.84	100.63	12.50	0.00	099.07	098.58
15	1.60	0.00	104.95	104.79	100.33	109.21	12.60	0.00	104.98	100.51	12.70	0.00	099.06	098.47
16	1.60	0.00	104.40	105.08	100.27	106.80	12.80	0.00	103.18	100.39	12.40	0.00	098.99	098.51
17	1.60	0.00	103.94	104.52	100.30	104.73	12.60	0.00	100.66	100.23	12.40	0.00	098.88	098.64
18	1.60	0.00	103.38	103.37	100.31	103.98	13.40	0.00	098.00	100.00	13.70	0.00	099.30	098.37
19	1.60	0.00	103.94	102.39	100.22	102.98	13.50	0.00	097.71	099.49	13.90	0.00	098.87	097.99
20	1.60	0.00	102.05	100.90	100.23	101.30	13.60	0.00	097.86	099.07	13.80	0.00	098.35	097.38
21	1.50	0.00	101.69	100.15	100.01	100.24	14.10	0.00	099.91	098.83	15.50	0.00	098.40	097.40
22	1.50	0.00	101.60	099.76	100.07	099.50	14.10	0.00	102.54	098.78	13.70	0.00	098.20	097.01
23	1.50	0.00	102.65	099.29	100.18	098.91	13.90	0.00	102.91	098.60	13.70	0.00	098.31	097.21
24	1.50	0.00	103.33	098.74	100.12	098.50	13.80	0.00	102.48	098.47	14.50	0.00	098.03	097.07

HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO	
	TOTAL DISCH KCFS	SPIILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPIILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPIILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT
1	13.40	0.00	098.20	096.14	9.30	0.00	099.34	099.71	63.90	0.00	103.13	102.11	101.73	?UNDEF
2	13.50	0.00	098.06	096.12	9.30	0.00	099.12	099.73	61.60	0.00	103.14	102.90	101.90	103.72
3	13.40	0.00	098.06	096.12	9.30	0.00	099.40	100.70	64.10	0.00	103.19	103.84	101.90	103.47
4	13.50	0.00	098.04	096.36	11.90	0.00	099.81	099.85	91.30	0.00	103.56	103.84	101.88	103.32
5	13.60	0.00	098.08	096.42	12.00	0.00	099.57	099.77	92.70	0.00	103.59	103.90	102.05	102.94
6	13.90	0.00	098.09	096.56	10.30	0.00	099.30	100.03	85.50	0.00	103.05	103.84	102.01	102.82
7	13.60	0.00	097.92	096.52	9.50	0.00	099.24	100.03	86.10	0.00	103.54	103.99	101.93	102.50
8	13.60	0.00	097.38	096.84	12.60	0.00	099.12	100.16	102.30	0.00	103.77	103.95	102.09	102.38
9	13.60	0.00	097.52	097.79	12.80	0.00	098.65	099.99	105.60	0.00	103.86	104.32	102.26	102.29
10	15.00	0.00	097.50	098.30	14.30	0.00	099.30	100.32	114.20	0.00	103.82	103.63	102.56	102.33
11	15.20	0.00	097.51	098.89	10.90	0.00	099.32	100.65	114.70	0.00	103.57	104.03	102.69	102.62
12	13.50	0.00	097.39	099.60	10.50	0.00	099.18	100.92	115.60	0.00	103.43	103.77	102.71	102.79
13	13.50	0.00	097.26	099.83	10.30	0.00	099.08	101.11	118.30	0.00	103.48	103.67	102.91	102.98
14	13.50	0.00	097.05	100.58	10.40	0.00	099.04	102.13	122.50	0.00	104.18	103.71	103.08	103.34
15	15.00	0.00	096.65	100.03	11.90	0.00	098.62	102.09	138.30	0.00	104.49	103.49	102.92	103.31
16	13.70	0.00	096.60	099.20	14.10	0.00	098.33	101.54	150.60	0.00	104.62	103.23	102.97	103.47
17	13.40	0.00	095.96	099.49	14.50	0.00	098.19	101.35	152.20	0.00	104.52	103.26	102.86	103.38
18	13.70	0.00	095.75	098.42	12.80	0.00	097.95	101.63	151.40	0.00	104.49	103.38	102.75	103.22
19	13.90	0.00	095.83	097.37	12.80	0.00	097.67	100.71	121.60	0.00	104.29	103.04	102.51	102.96
20	14.00	0.00	095.77	096.59	15.60	0.00	097.38	100.52	93.20	0.00	103.70	102.95	102.31	102.73
21	13.90	0.00	095.84	096.17	12.70	0.00	097.92	100.43	87.50	0.00	103.31	102.84	102.10	102.38
22	14.20	0.00	095.79	095.94	12.60	0.00	097.92	099.33	84.60	0.00	102.74	102.92	102.15	102.17
23	13.90	0.00	095.76	095.87	12.90	0.00	097.98	099.41	64.60	0.00	102.55	103.11	102.23	102.15
24	13.50	0.00	095.86	095.75	12.60	0.00	098.00	099.13	65.40	0.00	102.17	103.13	101.95	102.15

31 AUG 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

31 AUG 2001

	DWRSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	
1	1.60	0.00	104.17	099.36	100.12	099.20	13.90	0.00	108.73	099.51	14.40	0.00	103.51	097.62	
2	1.60	0.00	104.01	099.05	100.12	098.54	13.80	0.00	108.13	099.36	15.40	0.00	102.70	097.60	
3	1.60	0.00	103.77	098.87	100.21	098.37	13.80	0.00	107.95	099.30	13.90	0.00	102.04	097.67	
4	1.60	0.00	103.61	098.84	100.12	097.91	14.10	0.00	108.33	099.39	13.70	0.00	101.55	097.75	
5	1.60	0.00	103.81	098.77	100.11	097.00	13.80	0.00	108.09	099.02	14.00	0.00	100.84	097.55	
6	1.60	0.00	103.68	098.54	100.07	096.92	13.80	0.00	107.79	099.11	13.80	0.00	099.97	097.38	
7	1.60	0.00	103.78	098.75	100.16	098.09	13.90	0.00	107.58	099.18	13.70	0.00	099.14	097.34	
8	1.60	0.00	104.29	099.42	100.18	100.36	13.80	0.00	106.91	099.35	13.80	0.00	098.42	097.46	
9	1.70	0.00	104.58	100.33	100.19	101.81	13.90	0.00	107.40	099.84	13.80	0.00	097.85	097.57	
10	1.70	0.00	104.06	101.22	100.33	103.07	14.10	0.00	107.77	100.22	14.00	0.00	097.39	097.65	
11	1.70	0.00	103.14	102.63	100.18	105.75	13.90	0.00	106.31	100.50	13.80	0.00	097.05	097.64	
12	1.70	0.00	103.28	103.83	100.34	107.21	14.00	0.00	106.53	100.70	13.80	0.00	096.66	097.85	
13	1.70	0.00	103.99	104.46	100.12	108.66	14.00	0.00	107.26	100.89	13.80	0.00	096.71	097.89	
14	1.70	0.00	103.95	105.09	100.29	109.53	13.90	0.00	106.94	100.96	13.80	0.00	096.98	098.13	
15	1.60	0.00	104.09	105.31	100.40	110.48	14.20	0.00	105.13	100.89	15.40	0.00	097.53	098.60	
16	1.60	0.00	104.18	105.26	100.29	110.81	14.00	0.00	103.71	100.84	13.70	0.00	098.03	098.52	
17	1.60	0.00	104.22	104.64	100.37	109.66	13.90	0.00	103.59	101.42	13.60	0.00	098.19	098.68	
18	1.60	0.00	103.83	103.25	100.33	106.96	13.90	0.00	103.36	101.03	13.40	0.00	098.19	098.45	
19	1.60	0.00	104.22	102.36	100.23	104.68	13.90	0.00	104.60	100.22	13.60	0.00	098.74	098.32	
20	1.60	0.00	102.35	101.50	100.14	102.28	14.20	0.00	104.14	099.81	13.40	0.00	098.72	097.91	
21	1.60	0.00	101.87	100.30	100.12	101.14	14.10	0.00	103.51	099.62	13.40	0.00	098.69	097.87	
22	1.60	0.00	101.68	099.89	100.19	100.57	15.70	0.00	102.53	100.03	13.40	0.00	098.77	097.70	
23	1.60	0.00	101.63	099.70	100.01	099.44	14.00	0.00	103.24	099.95	13.60	0.00	098.88	097.69	
24	1.60	0.00	101.58	099.25	100.11	098.71	14.00	0.00	103.42	099.80	13.80	0.00	098.92	097.86	
	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT	
1	14.60	0.00	100.67	098.03	18.00	0.00	103.37	101.98	76.20	0.00	107.40	104.48	102.38	104.50	
2	13.90	0.00	100.51	097.95	10.00	0.00	102.85	101.53	56.70	0.00	106.94	104.96	102.59	104.32	
3	14.00	0.00	100.50	097.90	9.30	0.00	102.32	101.47	52.90	0.00	106.34	106.51	102.69	104.12	
4	13.90	0.00	099.61	097.71	9.30	0.00	101.86	101.28	53.10	0.00	105.05	104.58	102.49	103.91	
5	14.00	0.00	100.40	097.66	9.30	0.00	101.70	101.07	60.50	0.00	104.92	104.57	102.31	103.86	
6	15.50	0.00	099.52	097.45	9.30	0.00	100.84	100.94	107.90	0.00	105.63	103.95	102.13	103.83	
7	15.90	0.00	098.66	098.60	10.90	0.00	100.13	100.87	119.70	0.00	105.45	103.88	102.05	103.72	
8	14.00	0.00	097.69	099.02	9.40	0.00	100.60	101.00	108.40	0.00	104.43	103.44	102.14	103.59	
9	14.10	0.00	097.54	098.65	9.30	0.00	100.99	101.44	104.70	0.00	104.65	102.09	102.37	103.72	
10	15.60	0.00	097.78	098.84	9.30	0.00	100.99	102.22	107.10	0.00	106.54	103.99	102.51	103.99	
11	15.70	0.00	098.23	099.32	9.40	0.00	100.87	102.32	107.40	0.00	106.73	104.09	102.71	104.27	
12	14.10	0.00	098.64	099.88	11.00	0.00	100.78	103.60	98.90	0.00	106.82	104.22	102.76	104.72	
13	14.30	0.00	098.87	100.94	18.70	0.00	100.59	103.53	98.70	0.00	106.21	103.60	102.81	105.21	
14	14.10	0.00	098.91	101.27	18.10	0.00	100.52	103.78	99.30	0.00	106.28	102.90	102.78	105.76	
15	14.10	0.00	098.17	100.32	21.00	0.00	100.31	104.22	103.60	0.00	106.13	103.12	102.70	106.26	
16	14.00	0.00	097.74	099.49	18.00	0.00	100.27	103.52	124.00	0.00	106.20	103.21	102.84	106.35	
17	14.20	0.00	097.34	099.58	18.10	0.00	100.34	102.55	121.70	0.00	105.87	103.13	102.64	106.17	
18	14.50	0.00	097.22	098.59	18.10	0.00	099.83	102.21	96.50	0.00	105.23	103.03	102.37	106.19	
19	15.80	0.00	096.98	097.89	18.40	0.00	099.42	102.20	93.20	0.00	104.84	103.00	102.23	105.90	
20	14.20	0.00	096.98	097.30	19.60	0.00	099.81	100.95	95.50	0.00	104.49	102.80	101.92	105.33	
21	15.70	0.00	097.22	096.54	18.30	0.00	100.39	100.60	102.50	0.00	103.98	102.54	101.81	104.85	
22	14.30	0.00	097.94	097.05	19.70	0.00	100.54	100.21	104.10	0.00	103.77	102.50	101.76	?UNDEF	
23	14.10	0.00	098.02	096.44	17.80	0.00	100.64	100.87	105.00	0.00	103.63	102.16	101.68	?UNDEF	
24	13.80	0.00	098.37	096.25	10.10	0.00	100.20	099.89	95.80	0.00	103.47	102.40	101.80	?UNDEF	

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WALLA WALLA DISTRICT HYDRO PROJECTS
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HOUR	DWORSHAK			STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.
1	2.40	0.00	097.58	099.56	100.10	101.07	14.00	0.00	110.87	100.31	13.70	0.00	106.11	099.10
2	2.40	0.00	097.39	099.44	100.16	100.57	14.00	0.00	110.21	099.88	13.70	0.00	106.54	098.81
3	1.50	0.00	097.54	099.43	100.22	100.09	14.00	0.00	109.93	099.72	12.80	0.00	106.47	098.50
4	1.50	0.00	098.69	099.55	100.10	099.67	14.30	0.00	109.75	099.97	13.90	0.00	106.44	098.21
5	1.50	0.00	101.72	099.36	100.16	099.24	14.00	0.00	109.62	099.95	13.80	0.00	106.07	098.21
6	1.50	0.00	102.83	099.17	100.10	098.77	14.00	0.00	108.75	099.95	14.90	0.00	107.91	098.05
7	1.50	0.00	103.19	099.13	100.31	098.98	14.00	0.00	109.26	100.00	17.00	0.00	107.71	097.97
8	1.50	0.00	103.70	100.34	100.12	099.92	12.70	0.00	110.43	100.23	16.90	0.00	107.14	098.24
9	1.50	0.00	104.29	101.28	100.18	101.12	.30	0.00	110.31	100.54	17.10	0.00	107.56	098.76
10	1.50	0.00	106.12	101.98	100.15	102.61	5.30	1.00	110.39	103.63	13.80	0.00	108.20	099.03
11	1.50	0.00	108.22	102.73	100.26	104.41	13.50	0.00	110.60	111.52	14.10	0.00	108.40	098.92
12	1.50	0.00	109.43	103.75	100.59	106.40	17.40	0.00	110.10	107.49	14.30	0.00	107.62	099.38
13	1.50	0.00	110.00	104.49	100.14	108.22	17.40	0.00	110.42	104.45	17.20	0.00	106.94	099.68
14	1.60	0.00	110.09	105.08	100.44	109.69	17.50	0.00	111.68	103.80	16.30	0.00	105.68	099.72
15	1.60	0.00	109.08	105.52	100.47	110.96	19.20	0.00	112.03	102.76	17.50	0.00	106.74	099.39
16	1.60	0.00	107.95	105.57	100.41	110.90	17.20	0.00	111.70	103.01	14.40	0.00	106.22	099.54
17	1.60	0.00	107.28	105.16	100.47	110.93	19.00	0.00	111.56	101.91	16.10	0.00	106.12	099.45
18	1.60	0.00	106.78	103.38	100.12	109.46	17.40	0.00	110.91	101.68	16.10	0.00	105.56	098.89
19	1.60	0.00	107.28	102.68	100.12	106.58	25.50	0.00	110.49	100.95	20.70	0.00	105.06	098.54
20	1.60	0.00	104.72	101.70	100.25	103.83	26.50	0.00	110.05	100.41	19.20	0.00	104.09	098.49
21	1.60	0.00	104.37	100.63	100.05	102.66	26.90	0.00	109.87	099.99	19.20	0.00	104.15	098.26
22	1.60	0.00	104.22	100.44	100.10	101.55	25.40	0.00	109.68	100.08	20.90	0.00	104.41	098.03
23	1.60	0.00	104.00	099.97	100.12	100.83	16.00	0.00	109.38	099.62	20.90	0.00	103.69	098.10
24	1.60	0.00	104.04	099.52	100.19	099.96	13.80	0.00	108.93	099.45	16.90	0.00	103.71	098.05

HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO	
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT
1	14.30	0.00	105.94	099.61	10.30	0.00	108.51	103.19	65.10	0.00	107.83	108.55	102.69	*****
2	14.30	0.00	104.03	099.46	11.20	0.00	108.00	103.21	72.50	0.00	107.47	108.70	102.84	104.37
3	15.30	0.00	103.22	099.38	11.40	0.00	109.45	102.94	64.20	0.00	106.59	107.17	102.92	104.33
4	14.30	0.00	102.16	100.44	11.60	0.00	109.68	102.78	70.40	0.00	106.34	106.87	103.04	104.16
5	14.40	0.00	102.39	098.94	12.90	0.00	109.53	102.62	73.80	0.00	105.90	106.21	102.73	104.18
6	15.10	0.00	102.37	098.46	11.50	0.00	106.53	102.84	102.90	0.00	105.87	105.50	102.44	103.97
7	17.30	0.00	101.74	098.27	12.60	0.00	106.61	103.00	125.10	0.00	105.41	105.43	102.64	103.83
8	18.50	0.00	101.44	098.50	14.70	0.00	106.73	103.24	142.00	0.00	105.09	105.55	102.58	103.93
9	16.90	0.00	101.20	099.92	19.50	0.00	107.53	104.09	125.20	0.00	105.18	106.18	102.98	104.17
10	14.60	0.00	102.65	099.99	19.80	0.00	107.89	104.48	119.30	0.00	104.12	105.14	103.27	104.35
11	15.70	0.00	102.76	101.58	19.80	0.00	107.06	104.50	126.70	0.00	104.24	106.04	103.68	104.99
12	15.80	0.00	102.86	101.83	18.40	0.00	106.71	104.56	126.20	0.00	103.89	105.57	103.58	105.28
13	16.00	0.00	103.26	101.22	18.40	0.00	106.75	104.76	128.50	0.00	103.66	105.37	103.79	105.86
14	15.70	0.00	103.18	101.60	19.90	0.00	105.50	105.43	126.70	0.00	104.55	105.53	103.96	105.92
15	17.10	0.00	102.56	101.28	20.40	0.00	104.60	104.46	128.10	0.00	107.26	106.42	103.89	105.72
16	16.20	0.00	102.09	101.67	18.60	0.00	105.49	104.07	127.70	0.00	109.00	106.24	103.94	105.64
17	16.10	0.00	101.72	101.56	18.60	0.00	107.13	104.20	109.10	0.00	109.00	106.17	103.75	105.40
18	17.70	0.00	101.35	100.92	18.60	0.00	107.25	104.14	122.00	0.00	109.94	105.62	103.76	105.30
19	16.50	0.00	102.32	100.20	18.60	0.00	107.03	103.62	111.90	0.00	110.14	104.97	103.54	105.18
20	20.40	0.00	100.93	099.04	20.60	0.00	106.86	103.16	125.60	0.00	110.62	105.86	103.23	105.15
21	22.50	0.00	101.82	098.79	19.00	0.00	106.01	102.85	130.80	0.00	110.01	104.83	103.09	104.84
22	21.40	0.00	101.78	098.68	25.00	0.00	107.06	103.13	125.10	0.00	109.63	104.52	102.83	104.81
23	21.50	0.00	100.38	098.50	25.20	0.00	107.30	102.37	123.70	0.00	109.48	104.45	102.61	104.64
24	21.10	0.00	101.29	098.39	19.70	0.00	104.50	102.04	104.60	0.00	108.07	104.42	102.57	104.64

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WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

29 AUG 2001

HOUR	DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.		
1	4.70	0.00	096.32	099.37	099.11	100.86	17.20	0.00	107.58	099.47	26.00	0.00	100.94	097.96		
2	3.50	0.00	096.70	099.32	098.83	100.63	17.50	0.00	107.84	099.30	19.20	0.00	100.54	097.97		
3	2.50	0.00	099.44	099.17	099.77	100.16	16.40	0.00	108.35	099.00	13.00	0.00	100.35	098.07		
4	2.50	0.00	098.44	099.06	099.85	099.89	17.80	0.00	108.45	099.14	13.60	0.00	100.47	097.92		
5	2.50	0.00	097.31	099.02	099.92	099.61	25.50	0.00	108.44	099.38	14.20	0.00	100.69	097.73		
6	2.40	0.00	097.15	099.00	099.73	099.42	20.50	0.00	107.33	099.26	15.90	0.00	100.82	097.44		
7	2.50	0.00	097.08	099.08	100.68	099.54	8.30	2.00	107.78	109.96	17.60	0.00	100.77	097.53		
8	2.50	0.00	097.23	100.30	099.88	100.07	9.20	3.90	108.35	112.34	17.30	0.00	100.63	097.92		
9	2.40	0.00	097.58	101.20	100.22	101.15	9.20	3.90	108.82	113.50	12.90	0.00	100.91	098.12		
10	2.50	0.00	098.06	102.04	100.19	102.35	9.20	3.90	109.00	000.00	15.60	0.00	101.53	098.31		
11	2.40	0.00	098.72	103.01	100.41	103.88	9.20	3.90	109.49	118.63	15.90	0.00	101.47	098.66		
12	2.50	0.00	099.09	103.81	100.73	105.34	9.30	4.00	109.85	119.65	13.90	0.00	102.09	098.86		
13	2.40	0.00	099.48	104.69	100.42	106.92	9.40	4.10	109.68	119.08	13.60	0.00	103.01	098.92		
14	2.50	0.00	099.73	105.38	100.49	108.27	9.30	4.00	110.45	118.16	13.60	0.00	103.48	099.14		
15	2.50	0.00	099.82	105.21	100.33	109.47	13.00	2.20	111.11	119.47	13.70	0.00	104.23	099.11		
16	2.40	0.00	099.86	105.43	100.54	109.69	17.20	0.00	109.86	114.81	15.10	0.00	104.50	100.67		
17	2.50	0.00	099.63	105.06	100.47	109.60	17.90	0.00	110.01	107.00	15.10	0.00	104.56	100.86		
18	2.40	0.00	099.15	103.61	100.12	108.91	28.40	0.00	110.07	105.31	15.80	0.00	104.34	100.78		
19	2.50	0.00	099.63	102.81	100.04	107.27	28.30	0.00	109.98	103.02	26.80	0.00	103.74	100.55		
20	2.40	0.00	098.02	101.53	100.19	105.48	30.00	0.00	111.31	102.06	27.60	0.00	103.13	100.13		
21	2.50	0.00	097.83	101.09	100.12	104.09	28.20	0.00	111.14	101.31	27.60	0.00	102.42	099.68		
22	2.50	0.00	097.68	100.96	000.00	103.22	26.30	0.00	111.62	100.81	27.80	0.00	103.91	099.45		
23	2.40	0.00	097.65	524.67	*****	102.38	21.00	0.00	111.22	100.11	26.80	0.00	000.00	099.10		
24	2.50	0.00	097.58	100.00	100.12	101.81	15.00	0.00	111.41	100.34	16.50	0.00	106.54	098.94		
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT		
1	34.40	0.00	100.66	098.12	39.30	0.00	104.70	103.06	74.70	0.00	106.43	105.86	102.15	104.04		
2	27.40	0.00	101.51	097.69	29.60	0.00	106.05	103.01	74.10	0.00	106.31	106.38	101.98	103.77		
3	14.70	0.00	102.23	097.21	23.00	0.00	106.56	103.02	71.50	0.00	105.49	107.00	101.82	103.60		
4	15.10	0.00	102.20	097.18	12.40	0.00	106.50	102.86	67.60	0.00	105.98	107.66	101.52	103.35		
5	14.00	0.00	102.47	098.21	11.40	0.00	106.49	102.68	76.40	0.00	105.45	105.48	101.62	103.20		
6	14.80	0.00	102.70	097.89	9.90	0.00	106.73	102.54	121.20	0.00	104.87	106.41	101.61	103.01		
7	15.10	0.00	102.52	097.57	9.90	0.00	106.70	102.50	133.50	0.00	103.35	106.65	101.67	102.85		
8	15.10	0.00	102.25	098.27	12.60	0.00	106.42	103.81	131.90	0.00	102.30	106.34	101.94	102.69		
9	15.50	0.00	102.68	098.99	14.10	0.00	106.43	103.65	133.80	0.00	102.15	106.64	102.22	102.73		
10	15.60	0.00	105.13	099.39	12.60	0.00	107.14	104.22	136.70	0.00	104.16	105.99	102.53	102.88		
11	15.80	0.00	106.01	099.69	12.70	0.00	107.02	104.49	132.50	0.00	103.82	106.27	102.82	103.19		
12	15.40	0.00	105.28	100.11	13.30	0.00	106.41	105.09	135.60	0.00	107.50	105.76	102.92	103.79		
13	15.50	0.00	105.60	100.50	18.20	0.00	106.55	105.57	135.80	0.00	109.32	105.71	103.04	104.17		
14	17.00	0.00	105.86	100.91	19.80	0.00	106.79	106.67	136.70	0.00	109.97	106.59	102.99	104.36		
15	15.40	0.00	105.36	101.17	19.80	0.00	107.55	106.05	137.00	0.00	110.07	105.93	103.11	104.47		
16	17.00	0.00	105.73	101.58	18.30	0.00	109.11	105.67	136.50	0.00	111.01	106.94	103.34	104.55		
17	15.80	0.00	106.09	101.51	18.70	0.00	109.05	107.89	137.70	0.00	111.14	108.83	103.41	104.62		
18	18.30	0.00	106.44	100.76	23.40	0.00	109.00	105.53	124.50	0.00	109.59	112.12	103.85	104.65		
19	21.20	0.00	104.30	100.18	23.60	0.00	108.76	105.57	125.00	0.00	110.62	111.86	104.00	104.72		
20	26.50	0.00	103.77	100.23	25.00	0.00	108.45	104.46	117.10	0.00	109.39	109.99	103.73	104.68		
21	26.40	0.00	103.44	099.88	25.00	0.00	108.84	104.04	111.70	0.00	109.09	109.04	103.27	104.59		
22	26.30	0.00	104.52	099.77	25.20	0.00	108.44	103.65	106.70	0.00	109.07	000.00	103.01	*****		
23	26.40	0.00	105.60	099.76	24.30	0.00	107.73	103.65	95.00	0.00	108.70	109.28	102.87	104.57		
24	18.70	0.00	106.22	099.69	18.60	0.00	108.15	103.61	75.50	0.00	107.95	108.04	102.73	104.57		

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WALLA WALLA DISTRICT HYDRO PROJECTS
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HOUR	DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
	TOTAL DISCH.	SPILL	GAS	%SAT.	ANATONE	PECK	LEWISTON	TOTAL DISCH.	SPILL	GAS	%SAT.	TOTAL DISCH.	SPILL	GAS	%SAT.
	KCFS	KCFS	TAILW.	%SAT	%SAT	%SAT	%SAT	KCFS	KCFS	FB	TAILW.	KCFS	KCFS	FB	TAILW.
1	7.10	0.00	096.47	100.18	097.96	101.03	39.10	0.00	103.94	100.22	37.50	0.00	098.74	097.62	
2	4.80	0.00	096.45	100.18	098.13	100.58	27.80	0.00	103.50	100.01	29.50	0.00	098.85	097.58	
3	4.90	0.00	096.42	100.15	098.08	100.16	27.20	0.00	103.22	099.46	28.90	0.00	098.08	097.40	
4	4.80	0.00	096.23	100.11	098.18	099.87	27.20	0.00	103.87	099.42	30.40	0.00	098.35	097.54	
5	4.90	0.00	096.23	099.95	098.46	099.57	27.60	0.00	103.52	099.17	28.40	0.00	098.13	097.59	
6	4.80	0.00	096.06	099.65	098.27	099.27	25.90	.70	103.48	100.11	15.70	0.00	097.99	097.16	
7	4.90	0.00	096.17	099.61	098.49	099.22	11.70	5.90	103.42	104.08	14.70	0.00	098.12	097.18	
8	4.80	0.00	096.04	100.42	098.93	099.74	11.70	5.90	101.25	106.29	14.70	0.00	097.95	097.37	
9	4.90	0.00	096.18	101.22	099.40	100.65	11.70	5.90	102.99	109.01	16.50	0.00	097.87	097.33	
10	4.80	0.00	096.65	102.10	100.10	102.01	11.90	6.00	102.87	112.01	18.20	0.00	097.79	097.37	
11	4.90	0.00	097.29	102.56	101.39	102.85	11.80	5.90	104.78	113.10	17.10	0.00	097.65	097.23	
12	4.80	0.00	097.58	102.86	102.33	103.23	11.80	5.90	103.95	114.16	16.90	0.00	097.41	097.42	
13	4.90	0.00	097.31	102.28	102.60	103.36	14.90	9.00	104.27	115.73	16.80	0.00	097.50	097.99	
14	4.80	0.00	096.95	103.91	102.86	104.48	23.10	17.20	105.70	115.89	16.90	0.00	097.84	097.91	
15	4.90	0.00	097.55	104.77	103.33	105.63	23.90	18.00	106.61	115.06	16.80	0.00	097.74	098.02	
16	4.80	0.00	097.73	104.75	103.22	106.56	27.30	21.50	106.97	115.15	17.10	0.00	097.86	098.08	
17	4.90	0.00	097.66	104.65	103.50	106.74	27.30	21.50	108.92	115.77	16.80	0.00	098.17	098.11	
18	4.80	0.00	097.44	103.06	103.51	106.41	27.30	21.50	106.64	115.55	17.40	0.00	098.32	098.01	
19	4.90	0.00	097.66	102.26	102.82	105.48	27.30	21.50	108.35	114.60	36.90	0.00	098.61	098.03	
20	4.80	0.00	096.60	101.27	101.53	104.12	49.30	9.60	106.26	111.91	37.40	0.00	098.32	097.76	
21	4.90	0.00	096.40	100.80	100.71	103.12	40.40	0.00	108.50	104.61	43.30	0.00	099.35	097.87	
22	4.80	0.00	096.36	100.54	100.15	102.43	39.90	0.00	110.27	102.18	43.40	0.00	099.07	098.00	
23	4.90	0.00	096.33	100.14	099.65	101.85	37.40	0.00	108.92	100.40	40.90	0.00	098.95	097.96	
24	4.80	0.00	096.21	099.85	099.43	101.32	26.70	0.00	108.26	100.26	34.30	0.00	100.93	097.99	
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
	TOTAL DISCH.	SPILL	GAS	%SAT.	TOTAL DISCH.	SPILL	GAS	%SAT.	TOTAL DISCH.	SPILL	GAS	%SAT.	GAS	%SAT.	
	KCFS	KCFS	FB	TAILW.	KCFS	KCFS	FB	TAILW.	KCFS	KCFS	OR FB	WA FB	TAILW.	%SAT.	
1	35.10	0.00	098.02	096.67	25.00	0.00	101.19	101.41	55.90	0.00	105.74	104.96	100.86	104.28	
2	38.10	0.00	097.99	096.46	25.10	0.00	101.03	101.39	58.30	0.00	105.58	104.54	100.86	104.16	
3	28.50	0.00	098.38	096.16	29.30	0.00	100.77	101.40	59.60	0.00	106.21	104.93	100.74	103.87	
4	28.40	0.00	098.61	096.16	30.90	0.00	101.17	101.37	60.20	0.00	106.70	104.76	100.68	103.74	
5	28.00	0.00	099.01	096.18	29.40	0.00	101.16	101.46	87.50	0.00	106.58	102.42	100.70	103.47	
6	27.70	0.00	099.13	096.13	29.90	0.00	101.86	101.77	98.10	0.00	106.19	102.17	100.71	103.35	
7	19.60	0.00	097.11	096.03	20.10	0.00	101.27	101.33	130.70	0.00	101.55	102.93	100.91	103.16	
8	18.50	0.00	098.73	096.43	19.80	0.00	101.37	101.20	138.40	0.00	099.24	105.44	101.28	103.02	
9	18.50	0.00	098.54	097.10	20.80	0.00	101.21	101.20	147.10	0.00	099.50	105.28	101.53	102.94	
10	19.00	0.00	098.55	097.06	21.00	0.00	100.97	101.71	150.90	0.00	099.80	105.66	102.00	102.88	
11	18.80	0.00	098.34	097.80	24.00	0.00	101.03	102.09	147.70	0.00	101.70	106.41	102.16	103.04	
12	18.60	0.00	098.51	098.30	22.90	0.00	101.03	102.51	156.10	0.00	102.15	106.87	102.33	103.34	
13	18.60	0.00	099.50	098.66	21.00	0.00	101.23	103.58	157.10	0.00	105.00	105.07	102.45	103.69	
14	18.60	0.00	098.23	098.61	21.00	0.00	102.78	104.19	156.70	0.00	108.41	106.49	102.39	104.06	
15	20.10	0.00	098.16	099.42	20.90	0.00	103.13	104.09	155.90	0.00	109.53	107.24	102.35	104.25	
16	18.60	0.00	098.78	099.52	22.40	0.00	103.60	103.79	156.30	0.00	110.03	105.87	102.30	104.44	
17	18.80	0.00	098.68	099.03	21.30	0.00	103.90	103.82	156.90	0.00	109.78	107.43	102.37	104.50	
18	18.80	0.00	099.00	098.67	21.00	0.00	103.83	103.74	154.90	0.00	110.83	106.76	102.38	104.50	
19	26.30	0.00	099.02	098.35	26.80	0.00	103.56	104.01	153.50	0.00	112.27	104.64	102.14	104.53	
20	26.90	0.00	099.26	098.03	25.40	0.00	103.58	103.48	158.20	0.00	111.63	104.50	102.09	104.54	
21	41.40	0.00	100.00	097.60	25.20	0.00	103.68	102.91	159.40	0.00	110.64	103.78	102.33	104.57	
22	43.50	0.00	098.24	097.39	34.40	0.00	103.64	103.45	154.70	0.00	107.16	110.70	102.37	104.51	
23	45.30	0.00	101.51	097.53	39.50	0.00	103.24	103.61	125.90	0.00	103.03	107.08	102.15	104.35	
24	44.70	0.00	101.32	097.61	40.50	0.00	103.66	103.05	104.00	0.00	105.80	108.26	102.15	104.35	

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DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	
1	10.70	0.00	097.96	099.61	098.91	100.84	19.20	0.00	107.12	099.27	16.20	0.00	099.29	098.01	
2	10.70	0.00	097.86	099.16	098.66	100.24	20.20	0.00	107.31	099.39	14.60	0.00	099.25	097.87	
3	10.80	0.00	097.80	098.95	098.56	099.91	27.00	0.00	107.01	099.21	14.50	0.00	099.28	097.78	
4	10.70	0.00	097.75	098.97	098.45	099.57	27.20	0.00	106.65	098.85	14.80	0.00	099.48	097.45	
5	10.80	0.00	097.79	099.21	098.38	099.12	28.90	0.00	106.73	098.81	14.60	0.00	099.44	097.42	
6	10.70	0.00	097.71	099.27	098.10	098.92	26.10	.70	106.13	098.74	14.60	0.00	099.13	097.38	
7	10.90	0.00	097.67	099.50	098.23	098.86	11.20	5.90	106.21	099.21	14.60	0.00	099.09	097.33	
8	10.70	0.00	097.65	100.27	098.64	099.19	11.30	6.00	106.20	102.67	16.10	0.00	098.78	097.44	
9	10.90	0.00	097.81	100.95	099.05	099.99	11.20	5.90	105.42	106.48	16.60	0.00	098.69	097.69	
10	10.70	0.00	097.97	101.80	099.57	101.08	11.20	5.90	106.24	114.21	18.10	0.00	098.93	097.86	
11	10.90	0.00	098.17	102.85	100.27	102.08	11.20	5.90	106.66	115.86	16.70	0.00	098.69	098.02	
12	10.70	0.00	098.43	103.62	100.83	103.15	11.20	5.90	106.69	117.13	16.80	0.00	098.49	098.18	
13	10.50	0.00	098.66	104.31	101.35	104.15	11.30	6.00	106.89	117.36	16.70	0.00	098.58	098.25	
14	8.30	0.00	097.92	105.09	101.92	105.03	11.20	5.90	105.78	117.99	17.10	0.00	098.48	098.15	
15	10.30	0.00	097.85	105.86	102.47	105.80	11.20	5.90	104.49	118.21	16.70	0.00	098.44	098.39	
16	10.70	0.00	097.80	105.94	102.24	106.24	14.80	9.80	102.82	117.73	16.60	0.00	098.40	098.33	
17	10.80	0.00	097.80	105.29	101.41	106.28	22.30	17.30	102.98	116.97	16.60	0.00	098.28	098.22	
18	10.90	0.00	097.54	103.95	100.98	105.90	30.70	25.70	102.89	114.91	17.20	0.00	098.55	097.84	
19	10.70	0.00	097.80	103.17	100.19	105.11	30.40	25.40	103.43	114.88	31.50	0.00	097.07	097.88	
20	10.90	0.00	096.78	102.09	099.45	103.96	38.50	3.90	103.66	113.74	32.30	0.00	098.43	097.29	
21	10.70	0.00	096.71	101.48	098.80	103.10	39.30	0.00	103.62	108.46	39.40	0.00	098.92	097.12	
22	10.80	0.00	096.70	101.24	098.53	102.42	39.10	0.00	102.82	104.05	36.00	0.00	099.21	097.00	
23	10.60	0.00	096.63	100.75	098.32	101.85	41.80	0.00	103.86	102.78	36.10	0.00	099.03	097.28	
24	8.50	0.00	096.50	100.46	098.16	101.42	39.30	0.00	103.56	100.61	37.00	0.00	098.87	097.35	
LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT	
1	14.00	0.00	101.38	097.50	9.90	0.00	100.31	100.92	58.70	0.00	104.69	104.58	100.65	103.34	
2	13.70	0.00	101.07	097.20	10.00	0.00	099.44	100.73	55.10	0.00	104.87	105.07	100.61	103.27	
3	13.80	0.00	100.46	096.99	9.80	0.00	099.04	100.56	55.50	0.00	104.18	105.17	100.55	103.03	
4	13.80	0.00	098.81	096.89	9.80	0.00	098.81	100.49	56.60	0.00	000.00	104.98	100.50	102.84	
5	13.90	0.00	098.63	096.70	9.90	0.00	098.52	100.44	59.50	0.00	103.80	104.03	100.33	102.67	
6	13.90	0.00	098.46	096.78	9.80	0.00	098.31	100.37	60.10	0.00	103.90	103.56	100.28	102.64	
7	14.20	0.00	098.17	096.61	10.80	0.00	097.90	100.36	64.60	0.00	103.69	103.53	100.07	102.40	
8	17.60	0.00	097.96	096.97	19.80	0.00	097.95	100.84	97.90	0.00	103.26	102.52	100.28	102.36	
9	17.80	0.00	098.12	097.66	20.10	0.00	099.27	101.29	109.90	0.00	102.98	103.59	100.41	102.25	
10	17.90	0.00	098.50	098.20	20.10	0.00	099.91	102.61	108.20	0.00	102.39	103.32	100.59	102.35	
11	17.90	0.00	098.38	098.56	20.30	0.00	101.14	102.09	110.40	0.00	102.12	103.21	100.85	102.43	
12	17.80	0.00	099.22	099.44	20.20	0.00	101.36	102.25	108.90	0.00	104.81	102.73	101.18	102.73	
13	17.90	0.00	097.28	099.27	20.60	0.00	100.72	102.33	126.50	0.00	105.91	102.44	101.39	103.19	
14	18.20	0.00	097.11	099.27	20.10	0.00	100.96	102.64	142.00	0.00	106.66	103.34	101.33	103.68	
15	17.90	0.00	097.18	099.25	20.20	0.00	101.03	102.52	137.30	0.00	107.14	103.13	101.30	104.15	
16	19.40	0.00	097.25	099.21	20.10	0.00	101.15	102.41	118.20	0.00	108.26	102.84	101.36	105.02	
17	17.80	0.00	097.30	099.69	20.00	0.00	101.18	102.32	124.90	0.00	109.29	102.75	101.35	105.09	
18	18.20	0.00	098.38	098.93	21.90	0.00	101.10	102.22	123.50	0.00	106.41	102.52	101.20	105.14	
19	27.30	0.00	098.55	098.12	20.20	0.00	101.24	101.99	96.80	0.00	102.17	102.39	101.11	105.20	
20	28.20	0.00	098.54	097.55	20.30	0.00	101.72	101.67	97.30	0.00	102.67	102.73	101.07	105.16	
21	30.60	0.00	098.74	097.19	26.30	0.00	101.38	101.57	98.40	0.00	103.16	103.64	101.13	105.07	
22	32.00	0.00	100.08	098.10	25.10	0.00	101.00	101.33	94.50	0.00	103.28	103.04	101.09	104.93	
23	30.80	0.00	100.31	097.21	25.40	0.00	100.68	101.17	84.20	0.00	102.59	104.79	101.05	104.79	
24	34.90	0.00	098.42	096.99	25.10	0.00	101.19	101.65	58.60	0.00	105.33	105.02	100.90	104.79	

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HOUR	DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	
1	10.70	0.00	097.70	004.34	098.52	100.62	14.40	0.00	106.89	098.63	16.00	0.00	099.83	098.19		
2	10.90	0.00	097.70	099.78	098.52	100.20	16.20	0.00	106.35	098.64	15.80	0.00	100.21	098.05		
3	10.70	0.00	097.68	099.48	098.37	099.80	16.40	0.00	105.62	098.59	17.50	0.00	100.71	098.17		
4	10.90	0.00	097.64	099.31	098.18	099.35	16.40	0.00	106.37	098.56	15.70	0.00	100.01	097.83		
5	10.60	0.00	097.59	099.26	098.12	099.02	16.90	0.00	106.07	098.54	15.80	0.00	100.52	098.12		
6	10.80	0.00	097.52	099.08	098.03	098.74	18.10	0.00	106.27	098.34	15.50	0.00	100.11	097.80		
7	10.60	0.00	097.49	099.16	098.21	098.66	16.20	0.00	105.40	099.10	15.90	0.00	100.33	097.88		
8	10.90	0.00	097.49	099.82	098.40	099.06	16.40	0.00	105.28	099.52	16.30	0.00	100.15	097.88		
9	10.60	0.00	097.66	100.80	098.86	099.87	19.70	0.00	107.66	099.80	16.10	0.00	100.20	098.14		
10	10.80	0.00	097.87	101.80	099.51	100.87	26.70	0.00	107.78	099.84	20.70	0.00	100.20	098.34		
11	10.60	0.00	098.23	103.01	100.24	101.88	31.30	0.00	107.55	100.00	26.40	0.00	100.52	098.49		
12	10.90	0.00	098.49	104.07	100.84	103.03	31.30	0.00	108.06	100.23	31.20	0.00	101.80	098.84		
13	10.80	0.00	098.75	105.31	101.41	104.13	31.20	0.00	108.98	100.47	31.80	0.00	101.87	098.92		
14	10.70	0.00	098.99	105.96	101.72	104.90	33.10	0.00	109.73	100.46	32.70	0.00	102.97	099.28		
15	10.90	0.00	099.20	106.37	101.86	105.72	33.10	0.00	109.85	100.65	32.70	0.00	104.90	099.37		
16	10.70	0.00	099.18	106.30	102.01	106.06	27.70	0.00	109.94	100.58	31.20	0.00	103.23	099.56		
17	10.80	0.00	098.94	105.79	102.00	106.12	20.50	0.00	109.98	100.24	31.00	0.00	102.51	099.37		
18	10.90	0.00	098.73	104.38	101.69	105.80	19.20	0.00	110.86	100.45	25.40	0.00	102.01	099.18		
19	10.70	0.00	098.94	103.41	100.99	104.99	19.00	0.00	110.33	100.04	24.70	0.00	100.66	098.78		
20	10.90	0.00	098.43	102.25	100.22	103.99	19.10	0.00	109.73	099.74	25.90	0.00	104.03	098.50		
21	10.70	0.00	098.34	101.33	099.77	103.11	19.50	0.00	109.10	099.53	19.20	0.00	103.12	098.38		
22	10.80	0.00	098.26	100.74	099.40	102.41	19.10	0.00	108.75	099.60	15.10	0.00	101.13	098.15		
23	10.70	0.00	098.07	100.33	099.22	101.77	19.10	0.00	108.44	099.39	14.80	0.00	100.17	097.86		
24	10.90	0.00	098.15	099.93	099.17	101.31	19.10	0.00	108.23	099.33	14.60	0.00	099.45	097.64		
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT		
1	14.00	0.00	104.95	098.20	18.00	0.00	103.99	000.00	65.00	0.00	102.52	103.88	101.53	102.50		
2	13.70	0.00	103.56	097.56	12.90	0.00	101.98	100.69	69.70	0.00	102.08	104.18	101.63	102.35		
3	13.60	0.00	102.32	097.55	12.80	0.00	100.84	100.53	73.50	0.00	101.15	103.87	101.46	102.21		
4	13.70	0.00	100.95	097.24	12.70	0.00	100.03	100.37	86.90	0.00	100.66	103.32	101.14	102.06		
5	13.60	0.00	100.36	097.06	11.60	0.00	099.63	100.08	91.80	0.00	101.17	102.74	100.84	101.89		
6	14.00	0.00	101.30	096.99	10.20	0.00	100.00	100.05	84.80	0.00	101.75	102.35	100.57	101.74		
7	13.80	0.00	102.85	096.97	10.20	0.00	099.39	100.03	87.10	0.00	101.67	102.15	100.55	101.53		
8	15.60	0.00	102.95	097.19	13.20	0.00	099.21	100.09	96.50	0.00	101.59	101.71	100.53	101.37		
9	16.00	0.00	103.26	097.65	18.00	0.00	100.03	100.64	90.30	0.00	101.66	101.69	100.53	101.38		
10	19.90	0.00	104.19	098.36	20.00	0.00	102.30	102.10	91.30	0.00	101.41	101.47	100.95	101.66		
11	26.50	0.00	103.57	099.13	25.80	0.00	102.04	102.06	125.70	0.00	101.31	101.53	101.55	102.07		
12	31.90	0.00	104.21	100.09	30.60	0.00	102.09	102.52	128.50	0.00	103.92	103.09	101.72	102.66		
13	31.80	0.00	103.06	100.64	31.40	0.00	104.90	102.08	125.70	0.00	104.50	102.08	101.84	103.18		
14	31.50	0.00	102.87	100.62	31.40	0.00	104.86	102.32	126.00	0.00	105.25	102.26	101.63	103.50		
15	31.40	0.00	103.76	100.86	33.50	0.00	104.41	102.51	128.70	0.00	102.65	102.20	101.57	103.97		
16	33.00	0.00	104.93	101.96	31.50	0.00	104.72	102.91	127.20	0.00	100.73	105.35	101.65	104.21		
17	31.40	0.00	103.63	100.97	31.60	0.00	103.45	103.11	126.00	0.00	100.25	107.30	101.86	104.28		
18	31.30	0.00	103.30	100.30	33.10	0.00	103.64	102.93	90.80	0.00	100.41	105.95	101.90	104.44		
19	27.70	0.00	103.28	099.53	31.30	0.00	103.51	102.51	87.20	0.00	100.29	101.71	101.78	104.46		
20	27.10	0.00	104.19	099.15	31.60	0.00	103.88	102.20	87.20	0.00	102.96	102.27	101.47	104.29		
21	27.00	0.00	102.79	098.53	31.60	0.00	103.68	101.74	90.20	0.00	105.40	101.73	101.25	104.15		
22	20.20	0.00	104.04	098.11	18.40	0.00	103.77	101.55	83.00	0.00	105.77	101.45	101.20	103.97		
23	14.00	0.00	102.31	099.04	10.30	0.00	101.89	101.27	67.10	0.00	105.33	101.49	100.90	103.78		
24	13.70	0.00	100.87	098.52	9.90	0.00	101.43	101.12	56.70	0.00	105.01	102.93	100.71	103.78		

25 AUG 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

25 AUG 2001

HOUR	DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	
1	10.70	0.00	097.27	099.58	098.12	100.43	15.60	0.00	101.39	098.31	17.40	0.00	099.51	097.75		
2	10.80	0.00	097.41	099.31	098.05	100.04	15.70	0.00	100.86	098.28	16.90	0.00	099.33	097.46		
3	10.60	0.00	097.41	099.16	097.93	099.64	16.60	0.00	100.55	098.30	16.70	0.00	099.43	097.46		
4	10.60	0.00	097.40	098.99	097.87	099.33	16.80	0.00	100.21	098.10	16.50	0.00	099.29	097.37		
5	10.80	0.00	097.37	099.03	097.71	098.89	17.10	0.00	100.35	098.22	18.90	0.00	099.03	097.53		
6	10.60	0.00	097.14	098.95	097.65	098.53	18.40	0.00	100.11	098.48	17.80	0.00	098.91	097.50		
7	10.80	0.00	097.16	098.92	097.78	098.53	18.70	0.00	099.92	098.52	18.10	0.00	098.75	097.74		
8	10.70	0.00	097.30	099.64	098.11	098.97	19.40	0.00	100.35	098.90	19.00	0.00	098.84	097.75		
9	10.90	0.00	097.54	100.66	098.56	099.67	25.10	0.00	100.98	099.21	22.00	0.00	099.03	098.06		
10	10.60	0.00	097.75	101.53	099.34	100.68	27.70	0.00	101.53	099.53	22.20	0.00	099.23	098.42		
11	10.80	0.00	098.09	102.51	099.97	101.65	28.10	0.00	102.27	099.72	28.90	0.00	099.40	098.69		
12	10.60	0.00	098.34	103.53	100.64	102.70	28.10	0.00	103.81	099.89	31.20	0.00	099.61	098.89		
13	10.80	0.00	098.46	104.63	101.21	103.74	27.50	0.00	104.18	100.12	28.90	0.00	099.45	098.99		
14	10.70	0.00	098.82	105.42	101.57	104.68	26.20	0.00	105.19	100.19	28.80	0.00	099.44	099.28		
15	10.80	0.00	098.90	105.85	101.63	105.33	27.90	0.00	106.35	100.28	28.60	0.00	100.16	099.10		
16	10.70	0.00	098.85	105.57	101.70	105.70	26.10	0.00	107.41	100.26	27.10	0.00	101.62	099.32		
17	10.90	0.00	098.61	104.98	101.65	105.63	26.10	0.00	108.52	100.16	27.60	0.00	101.18	099.37		
18	10.60	0.00	098.37	104.27	101.26	104.98	26.10	0.00	109.16	099.83	26.10	0.00	104.65	099.37		
19	10.80	0.00	098.61	103.38	100.40	104.21	26.50	0.00	106.88	099.74	26.20	0.00	105.26	099.16		
20	10.70	0.00	098.06	102.69	099.90	103.51	25.20	0.00	106.60	099.43	28.00	0.00	103.24	099.05		
21	10.60	0.00	097.86	101.91	099.35	102.63	17.00	0.00	107.34	098.99	26.30	0.00	104.69	098.83		
22	10.80	0.00	097.82	101.49	2UNDEF	102.08	17.00	0.00	*****	098.86	22.30	0.00	101.95	098.81		
23	10.60	0.00	097.78	100.96	098.94	101.52	17.00	0.00	107.71	098.83	16.90	0.00	100.98	098.65		
24	10.90	0.00	097.76	100.37	098.68	101.04	16.50	0.00	107.16	098.67	17.20	0.00	100.28	098.26		
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT		
1	22.10	0.00	100.69	097.78	24.50	0.00	104.45	100.25	62.50	0.00	102.56	102.84	100.68	100.83		
2	20.70	0.00	100.29	098.02	18.90	0.00	103.92	100.12	63.90	0.00	102.60	103.21	100.52	100.87		
3	17.00	0.00	099.97	097.87	12.40	0.00	102.82	099.92	62.40	0.00	101.89	104.13	100.29	100.94		
4	18.40	0.00	100.35	098.46	14.40	0.00	102.12	099.91	79.50	0.00	101.63	103.31	100.38	100.94		
5	16.20	0.00	099.95	097.81	12.30	0.00	101.87	099.80	85.70	0.00	101.49	103.30	100.37	100.94		
6	16.90	0.00	099.80	097.67	12.40	0.00	101.43	101.63	101.40	0.00	102.11	102.91	100.33	100.79		
7	16.20	0.00	099.51	097.62	19.70	0.00	101.41	111.57	102.50	0.00	101.19	102.85	100.22	100.63		
8	17.30	0.00	099.67	098.03	19.10	0.00	101.15	114.37	111.00	0.00	101.18	102.34	100.31	100.49		
9	21.50	0.00	099.80	098.73	21.20	0.00	101.55	107.13	117.10	0.00	102.02	101.27	100.46	100.49		
10	23.20	0.00	100.79	100.13	21.30	0.00	101.73	104.68	119.90	0.00	102.43	101.14	100.76	100.52		
11	27.70	0.00	101.64	100.39	21.30	0.00	101.90	103.34	122.40	0.00	103.15	101.34	100.85	100.81		
12	28.80	0.00	102.14	100.56	25.40	0.00	101.98	103.04	120.00	0.00	103.54	101.91	101.26	101.19		
13	29.20	0.00	101.56	100.93	25.30	0.00	101.66	103.15	118.30	0.00	104.53	102.10	101.33	101.68		
14	29.00	0.00	101.22	101.07	26.80	0.00	101.79	103.33	117.40	0.00	105.04	102.60	101.43	102.35		
15	29.00	0.00	100.80	101.11	31.90	0.00	102.57	103.10	118.00	0.00	104.62	104.59	101.78	102.75		
16	29.10	0.00	102.92	101.23	30.60	0.00	105.86	103.20	118.90	0.00	105.35	105.70	102.00	102.97		
17	29.40	0.00	103.93	100.91	32.10	0.00	104.33	103.11	120.60	0.00	105.56	106.45	102.19	102.98		
18	28.90	0.00	103.94	100.67	31.30	0.00	104.50	102.81	120.10	0.00	105.45	105.68	102.08	103.05		
19	27.30	0.00	107.07	099.87	29.10	0.00	104.52	102.75	120.50	0.00	105.11	106.28	102.14	103.08		
20	28.60	0.00	107.07	099.14	30.70	0.00	105.78	102.19	129.00	0.00	105.08	105.72	102.11	103.08		
21	28.70	0.00	107.01	098.76	29.20	0.00	103.42	101.73	134.30	0.00	105.05	105.17	102.23	103.01		
22	28.60	0.00	107.22	098.70	29.10	0.00	105.50	101.56	113.00	0.00	104.35	102.82	101.74	102.85		
23	30.40	0.00	106.84	099.47	29.40	0.00	101.58	101.29	93.60	0.00	103.81	103.33	101.62	102.83		
24	17.40	0.00	106.18	099.39	19.30	0.00	103.68	101.12	75.20	0.00	103.08	000.00	101.45	102.83		

24 AUG 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

24 AUG 2001

HOUR	DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
	TOTAL DISCH. KCFS	SPIILL KCFS	GAS FB	%SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPIILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPIILL KCFS	GAS FB	%SAT. TAILW.	
1	10.80	0.00	097.50	099.69	098.26	100.27	16.40	0.00	100.24	098.37	15.70	0.00	098.76	097.64		
2	10.60	0.00	097.55	099.43	098.18	099.97	15.70	0.00	099.91	098.29	14.70	0.00	098.54	097.48		
3	10.80	0.00	097.57	099.27	098.17	099.72	16.20	0.00	099.77	097.90	13.30	0.00	098.68	097.22		
4	10.60	0.00	097.38	099.20	098.18	099.41	16.30	0.00	099.75	098.01	14.70	0.00	098.53	097.42		
5	10.80	0.00	097.35	099.22	097.95	099.26	16.70	0.00	099.84	098.10	15.50	0.00	098.60	097.25		
6	10.60	0.00	097.30	099.18	097.97	098.97	19.30	0.00	099.60	098.16	17.30	0.00	098.43	097.19		
7	10.80	0.00	097.29	099.26	098.05	098.85	19.20	0.00	099.45	098.23	20.10	0.00	098.43	097.43		
8	10.60	0.00	097.27	099.51	098.28	099.25	19.10	0.00	099.60	098.48	20.20	0.00	098.65	097.57		
9	10.80	0.00	097.54	100.19	098.71	099.91	19.10	0.00	099.59	098.68	18.50	0.00	098.69	097.83		
10	10.60	0.00	097.94	100.88	099.40	100.60	19.20	0.00	099.65	098.95	18.30	0.00	099.01	097.97		
11	10.60	0.00	097.99	101.73	100.00	101.39	19.10	0.00	099.92	099.35	18.70	0.00	098.93	098.13		
12	10.80	0.00	098.15	102.74	100.61	102.28	19.30	0.00	100.21	099.53	19.80	0.00	098.57	098.14		
13	10.70	0.00	098.22	103.61	100.91	103.38	19.10	0.00	099.84	099.67	19.90	0.00	098.87	098.30		
14	10.80	0.00	098.53	104.30	101.38	104.25	19.80	0.00	100.56	099.71	20.10	0.00	098.95	098.35		
15	10.60	0.00	098.59	104.80	101.32	104.83	26.30	0.00	101.70	099.68	20.60	0.00	099.14	098.42		
16	10.80	0.00	098.51	104.98	101.37	105.31	26.00	0.00	102.00	099.71	20.70	0.00	099.18	098.45		
17	10.60	0.00	098.40	104.59	101.24	105.29	26.80	0.00	102.05	099.61	22.10	0.00	098.96	098.51		
18	10.80	0.00	098.15	103.26	100.92	105.09	32.00	0.00	102.19	099.40	27.20	0.00	099.25	098.64		
19	10.60	0.00	098.40	102.68	100.29	104.35	32.30	0.00	102.19	098.96	32.10	0.00	099.24	098.16		
20	10.80	0.00	097.83	101.83	099.58	103.47	31.90	0.00	101.92	098.85	32.50	0.00	099.18	097.99		
21	10.60	0.00	097.61	101.34	099.09	102.67	33.60	0.00	101.58	098.77	37.80	0.00	099.17	097.92		
22	10.80	0.00	097.54	100.73	098.73	101.97	32.50	0.00	101.66	098.85	37.40	0.00	099.25	097.91		
23	10.60	0.00	097.34	100.32	098.54	101.38	31.80	0.00	101.27	098.70	37.60	0.00	099.27	097.95		
24	10.80	0.00	097.46	099.89	098.24	100.98	31.40	0.00	101.02	098.74	36.70	0.00	099.24	097.91		
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
	TOTAL DISCH KCFS	SPIILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPIILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPIILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT		
1	20.20	0.00	100.05	097.29	22.60	0.00	099.22	099.16	64.20	0.00	102.51	101.02	100.21	099.64		
2	18.30	0.00	100.05	097.10	18.60	0.00	099.48	099.13	61.50	0.00	102.10	100.86	100.21	099.39		
3	15.30	0.00	100.03	097.06	11.60	0.00	099.83	099.11	62.70	0.00	102.09	100.73	100.18	099.34		
4	15.00	0.00	099.92	096.99	11.50	0.00	099.67	098.94	64.30	0.00	101.87	100.94	100.00	099.43		
5	15.40	0.00	099.83	096.83	12.70	0.00	098.82	098.91	62.90	0.00	101.62	101.30	100.08	099.41		
6	17.80	0.00	099.71	096.76	13.10	0.00	098.93	098.84	65.10	0.00	100.92	100.99	099.92	099.38		
7	21.80	0.00	099.81	097.00	19.60	0.00	099.28	099.25	71.60	0.00	101.00	100.71	100.01	099.21		
8	18.10	0.00	099.79	097.38	19.40	0.00	099.91	099.74	73.70	0.00	101.37	100.65	100.00	099.18		
9	23.20	0.00	099.69	099.34	24.30	0.00	100.30	100.21	76.60	0.00	101.52	101.98	100.37	099.14		
10	21.20	0.00	099.29	098.58	25.40	0.00	100.58	100.49	106.10	0.00	101.79	102.61	100.76	099.27		
11	21.10	0.00	099.71	098.86	24.40	0.00	100.76	100.30	121.50	0.00	101.91	102.91	100.93	099.58		
12	19.80	0.00	099.97	099.83	23.80	0.00	100.38	100.97	121.60	0.00	101.41	102.92	101.22	099.85		
13	20.00	0.00	099.88	099.52	24.40	0.00	100.41	101.18	123.60	0.00	101.23	102.58	101.56	100.19		
14	19.60	0.00	100.04	100.39	22.30	0.00	100.72	101.45	122.90	0.00	102.60	101.73	101.74	100.36		
15	19.70	0.00	100.00	099.87	22.30	0.00	101.85	101.45	110.30	0.00	104.52	101.58	101.72	100.58		
16	20.60	0.00	099.95	099.77	21.80	0.00	101.51	101.86	109.30	0.00	105.38	101.88	101.52	100.77		
17	20.70	0.00	099.69	099.33	21.70	0.00	101.16	101.37	108.60	0.00	105.86	102.36	101.30	100.97		
18	20.60	0.00	100.53	099.00	21.60	0.00	101.21	101.29	110.60	0.00	106.18	101.86	101.21	101.11		
19	21.40	0.00	100.80	098.45	22.10	0.00	100.94	101.15	110.60	0.00	106.29	101.72	100.97	101.26		
20	34.60	0.00	100.79	098.44	25.10	0.00	101.61	100.84	106.60	0.00	104.04	101.42	100.84	101.21		
21	38.70	0.00	101.15	098.09	32.10	0.00	104.19	100.68	75.30	0.00	103.70	101.35	100.75	101.17		
22	40.60	0.00	100.33	097.89	38.50	0.00	100.86	100.74	63.70	0.00	103.32	101.89	100.62	101.02		
23	40.50	0.00	104.19	097.99	39.10	0.00	101.38	100.15	63.00	0.00	102.78	101.74	100.60	100.86		
24	40.10	0.00	104.87	097.96	42.10	0.00	104.14	099.99	63.30	0.00	102.63	105.10	100.60	100.86		

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HOUR	DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	
1	10.70	0.00	097.96	099.65	098.84	100.62	32.20	0.00	100.97	098.56	38.80	0.00	099.84	098.07		
2	10.50	0.00	097.73	099.47	098.56	100.22	18.60	0.00	101.55	098.61	29.80	0.00	099.84	097.94		
3	10.70	0.00	097.73	099.28	098.34	099.92	14.70	0.00	100.63	098.29	22.80	0.00	099.83	097.69		
4	10.50	0.00	097.88	099.24	098.42	099.77	14.30	0.00	100.23	098.33	17.20	0.00	099.69	097.67		
5	10.70	0.00	097.83	099.05	098.28	099.49	16.90	0.00	100.58	098.16	15.80	0.00	099.69	097.48		
6	10.70	0.00	097.63	099.06	098.32	099.22	18.90	0.00	100.66	098.79	16.30	0.00	099.65	097.30		
7	10.50	0.00	097.76	099.25	098.26	099.16	19.10	0.00	100.96	098.76	17.90	0.00	099.26	097.42		
8	10.60	0.00	097.89	099.53	098.67	099.27	19.40	0.00	100.92	098.72	18.00	0.00	099.49	097.45		
9	10.70	0.00	098.03	099.91	099.09	099.69	18.90	0.00	100.88	098.97	18.30	0.00	099.72	097.52		
10	10.50	0.00	098.40	100.62	099.84	100.50	18.80	0.00	101.20	099.14	18.70	0.00	099.75	097.60		
11	10.70	0.00	098.29	101.32	100.27	101.43	19.00	0.00	100.75	099.13	18.50	0.00	099.63	097.74		
12	10.60	0.00	098.30	102.73	100.15	102.57	19.10	0.00	100.74	099.41	18.40	0.00	099.50	097.74		
13	10.80	0.00	098.61	103.01	100.64	103.03	19.40	0.00	100.90	099.15	18.50	0.00	099.68	097.64		
14	10.60	0.00	098.60	102.84	100.90	103.75	21.00	0.00	100.75	099.26	18.50	0.00	099.91	097.86		
15	10.40	0.00	098.89	102.48	101.01	103.61	19.40	0.00	100.32	099.10	20.40	0.00	099.57	098.25		
16	10.60	0.00	098.35	103.28	100.90	103.90	19.50	0.00	100.66	099.15	20.00	0.00	099.25	098.53		
17	10.60	0.00	098.71	103.37	100.90	103.92	29.10	0.00	101.09	099.06	22.20	0.00	099.41	098.41		
18	10.70	0.00	098.43	102.65	100.53	103.73	30.00	0.00	101.48	099.02	32.00	0.00	099.54	098.42		
19	10.60	0.00	098.71	101.87	100.11	103.05	31.90	0.00	102.03	098.91	31.10	0.00	099.07	098.38		
20	10.60	0.00	097.55	101.07	099.42	102.33	34.20	0.00	101.55	099.05	34.70	0.00	098.73	098.08		
21	10.80	0.00	097.62	100.64	098.76	101.64	33.80	0.00	101.06	098.93	34.10	0.00	099.08	097.73		
22	10.50	0.00	097.58	100.35	098.69	101.17	35.00	0.00	100.47	098.87	34.10	0.00	098.25	097.68		
23	10.80	0.00	097.40	100.05	098.41	100.89	32.00	0.00	100.71	099.00	34.00	0.00	098.46	097.52		
24	10.60	0.00	097.51	099.88	098.22	100.60	16.70	0.00	100.71	098.38	29.10	0.00	098.52	097.44		
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT		
1	41.60	0.00	102.13	123.58	41.70	0.00	103.64	100.51	61.20	0.00	103.39	102.92	101.74	101.00		
2	38.70	0.00	101.62	124.50	40.00	0.00	102.59	100.64	61.70	0.00	103.41	103.01	101.56	100.88		
3	30.50	0.00	101.45	122.45	40.00	0.00	101.89	100.37	71.20	0.00	103.10	103.71	101.81	101.00		
4	14.70	0.00	101.70	121.14	37.30	0.00	101.98	100.31	71.50	0.00	102.84	103.24	101.75	100.92		
5	14.00	0.00	101.13	122.51	32.40	0.00	102.47	100.29	90.70	0.00	102.96	103.20	102.02	100.91		
6	14.00	0.00	101.25	126.05	21.20	0.00	102.15	099.96	119.50	0.00	102.78	102.97	102.16	100.68		
7	14.00	0.00	101.30	125.73	22.30	0.00	102.07	100.40	127.40	0.00	102.23	102.77	101.95	100.35		
8	13.90	0.00	101.25	126.85	20.80	0.00	101.84	100.01	133.20	0.00	102.17	102.51	101.59	099.96		
9	14.20	0.00	100.87	124.04	19.70	0.00	101.93	100.04	118.70	0.00	102.13	102.50	101.71	099.87		
10	13.90	0.00	099.92	119.13	18.40	0.00	101.76	100.53	98.00	0.00	102.50	102.46	101.51	099.67		
11	15.50	0.00	100.56	108.44	18.10	0.00	101.72	100.11	99.30	0.00	102.36	102.30	101.48	099.47		
12	16.90	0.00	101.24	104.35	19.80	0.00	101.41	101.29	98.60	0.00	102.40	102.40	101.50	099.47		
13	17.30	0.00	101.20	101.66	18.20	0.00	101.32	100.31	98.40	0.00	102.69	102.69	101.65	099.50		
14	18.60	0.00	100.67	100.98	18.20	0.00	101.24	100.67	101.70	0.00	102.82	103.68	101.98	099.55		
15	17.00	0.00	099.59	100.85	18.60	0.00	101.37	101.51	106.20	0.00	102.96	104.47	102.24	099.92		
16	18.70	0.00	099.48	100.80	18.20	0.00	101.24	101.21	106.20	0.00	102.72	104.11	102.28	100.17		
17	17.80	0.00	099.79	101.00	18.20	0.00	101.92	101.40	98.50	0.00	103.00	103.11	102.17	100.52		
18	21.80	0.00	100.70	099.65	18.30	0.00	100.07	101.37	96.20	0.00	102.81	102.35	102.12	100.77		
19	31.10	0.00	101.20	098.97	21.60	0.00	099.53	100.89	96.40	0.00	102.69	102.18	101.79	100.70		
20	38.10	0.00	101.83	098.24	30.30	0.00	099.13	100.27	95.70	0.00	103.37	101.70	101.21	100.60		
21	37.50	0.00	101.52	097.68	31.30	0.00	098.78	099.87	86.40	0.00	104.16	101.54	100.84	100.37		
22	37.50	0.00	101.55	097.75	34.50	0.00	098.31	099.30	67.00	0.00	103.88	101.26	100.60	100.19		
23	37.10	0.00	101.26	097.71	34.50	0.00	100.73	099.24	63.00	0.00	103.54	101.34	100.60	100.00		
24	36.40	0.00	101.07	097.48	34.30	0.00	100.48	099.18	69.10	0.00	102.97	101.28	100.38	100.00		

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	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.
1	10.60	0.00	098.10	099.82	098.84	100.93	27.90	0.00	102.38	099.43	34.70	0.00	099.29	097.91
2	10.50	0.00	098.07	099.71	098.66	100.50	27.80	0.00	101.97	099.39	36.30	0.00	099.30	098.04
3	10.60	0.00	098.04	099.58	098.64	100.04	26.90	0.00	101.81	099.26	34.20	0.00	099.50	098.03
4	10.70	0.00	097.99	099.48	098.49	099.60	17.40	0.00	101.80	098.80	25.70	0.00	099.37	097.73
5	10.60	0.00	097.95	099.46	098.43	099.49	16.90	0.00	101.77	099.19	25.10	0.00	099.37	097.72
6	10.60	0.00	097.79	*****	098.28	099.19	15.70	0.00	101.47	099.15	19.50	0.00	099.19	097.71
7	10.60	0.00	097.75	099.48	098.37	099.10	29.30	0.00	101.28	098.96	12.80	0.00	098.99	097.67
8	10.50	0.00	098.00	099.89	098.80	099.26	15.60	0.00	101.13	099.26	13.00	0.00	099.13	097.76
9	10.50	0.00	098.17	100.86	099.37	099.91	15.70	0.00	101.31	099.39	13.50	0.00	098.95	097.74
10	10.70	0.00	098.48	101.36	099.95	100.73	15.50	0.00	101.66	099.65	13.40	0.00	098.66	098.02
11	10.70	0.00	098.56	101.93	100.40	101.53	16.00	0.00	101.53	100.08	14.60	0.00	099.58	097.99
12	10.50	0.00	098.67	102.44	100.85	102.00	19.40	0.00	102.24	100.62	14.60	0.00	100.31	098.30
13	10.70	0.00	098.60	102.75	100.81	102.28	19.50	0.00	102.69	100.92	14.80	0.00	100.13	098.50
14	10.50	0.00	098.60	103.36	100.75	102.77	20.70	0.00	102.80	100.88	16.60	0.00	100.07	098.74
15	10.50	0.00	098.65	104.55	100.68	103.65	19.10	0.00	103.26	101.65	16.40	0.00	100.12	098.74
16	10.50	0.00	098.90	104.97	100.99	104.46	19.30	0.00	103.79	100.76	16.40	0.00	101.05	099.09
17	10.60	0.00	099.00	104.93	101.25	104.81	19.00	0.00	103.71	100.46	17.80	0.00	100.40	099.19
18	10.50	0.00	098.89	103.58	101.37	104.58	19.00	0.00	103.99	100.38	18.00	0.00	100.55	098.84
19	10.50	0.00	099.00	102.85	100.78	103.73	18.90	0.00	104.09	099.72	18.70	0.00	100.32	098.66
20	10.50	0.00	098.29	102.09	100.18	102.97	34.80	0.00	104.99	099.45	33.80	0.00	100.59	098.47
21	10.50	0.00	098.13	101.43	099.47	102.27	36.90	0.00	103.82	099.22	35.90	0.00	099.83	098.43
22	10.50	0.00	098.11	100.80	099.07	101.69	36.40	0.00	101.70	098.86	37.50	0.00	099.48	098.09
23	10.50	0.00	098.23	100.27	098.96	101.28	36.20	0.00	101.08	098.79	39.80	0.00	099.61	097.97
24	10.50	0.00	098.07	099.95	098.83	100.89	34.40	0.00	100.84	098.52	41.40	0.00	099.80	097.92
	LOWER MONUMENTAL			ICE HARBOR			MCNARY			PASCO				
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT		
1	37.80	0.00	099.99	098.74	39.70	0.00	100.19	099.99	67.60	0.00	103.66	101.88	101.37	102.00
2	38.70	0.00	100.90	098.70	39.00	0.00	100.86	099.87	84.90	0.00	104.16	101.84	101.35	101.80
3	41.00	0.00	100.71	098.65	36.00	0.00	101.90	099.85	81.50	0.00	103.82	101.87	101.41	101.84
4	38.60	0.00	100.60	098.31	31.80	0.00	102.43	099.96	94.30	0.00	103.22	103.28	101.32	101.79
5	38.90	0.00	100.43	098.36	38.00	0.00	102.14	100.60	75.70	0.00	103.09	103.80	101.17	101.65
6	37.70	0.00	100.40	098.20	34.80	0.00	101.86	100.00	84.70	0.00	103.47	103.65	101.29	101.33
7	16.90	6.80	100.19	098.25	21.20	0.00	101.51	099.73	88.60	0.00	103.74	104.02	101.37	101.20
8	13.10	7.20	100.07	098.51	18.10	0.00	101.26	099.73	96.20	0.00	103.62	102.49	101.37	100.86
9	12.20	6.40	099.91	102.92	18.10	0.00	101.23	099.89	101.00	0.00	103.02	103.99	101.70	100.63
10	11.50	5.70	099.76	110.12	12.90	0.00	101.18	101.34	98.20	0.00	103.19	103.26	101.90	100.52
11	13.10	5.80	100.21	113.17	14.20	0.00	100.49	100.79	95.60	0.00	103.38	103.16	102.24	100.56
12	11.60	5.80	100.67	113.95	9.70	0.00	100.98	100.72	93.50	0.00	103.15	102.16	102.44	100.64
13	11.60	5.80	101.16	114.47	9.40	0.00	101.86	101.03	95.30	0.00	103.21	102.51	102.80	100.83
14	11.60	5.80	101.36	115.52	9.40	0.00	102.83	101.63	96.60	0.00	103.16	102.98	102.97	101.15
15	13.00	5.70	102.86	115.75	10.90	0.00	103.68	102.40	95.90	0.00	102.96	103.72	103.20	101.47
16	11.60	5.80	102.30	116.05	9.40	0.00	103.53	103.13	94.00	0.00	102.84	104.37	103.36	101.78
17	11.60	5.80	103.27	115.36	9.60	0.00	102.44	103.20	95.00	0.00	103.21	104.18	103.02	102.03
18	11.60	5.80	102.38	114.57	9.50	0.00	102.21	102.42	95.60	0.00	103.32	103.14	102.87	102.08
19	12.90	5.80	102.70	113.73	9.40	0.00	102.45	101.96	92.90	0.00	102.95	102.67	102.64	102.12
20	25.50	0.00	101.77	112.86	11.40	0.00	102.10	101.47	91.10	0.00	103.32	102.82	102.19	101.88
21	33.00	0.00	103.11	118.02	24.30	0.00	101.67	101.87	84.20	0.00	104.07	102.69	101.88	101.65
22	39.30	0.00	102.95	124.30	31.60	0.00	101.31	101.13	80.50	0.00	103.98	103.01	101.73	101.44
23	41.80	0.00	101.78	121.55	37.90	0.00	102.20	101.47	68.40	0.00	104.04	103.03	101.44	101.20
24	41.80	0.00	101.81	123.15	39.80	0.00	104.93	100.48	63.60	0.00	103.67	103.04	101.73	101.20

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	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.
1	10.40	0.00	098.08	099.96	098.87	100.95	15.40	0.00	103.46	100.07	20.30	0.00	101.12	099.38
2	10.40	0.00	098.31	099.65	098.69	100.35	15.50	0.00	103.45	099.76	18.70	0.00	101.24	099.05
3	10.40	0.00	098.28	099.51	098.59	100.05	17.20	0.00	103.45	099.46	20.20	0.00	101.09	098.77
4	10.40	0.00	098.24	099.29	098.58	099.57	16.90	0.00	102.97	099.70	18.40	0.00	100.81	098.75
5	10.40	0.00	098.19	099.20	098.45	099.22	17.40	0.00	102.61	099.92	19.80	0.00	100.74	098.43
6	10.40	0.00	097.98	099.13	098.43	098.93	17.40	0.00	102.16	100.01	16.90	0.00	100.17	098.26
7	10.40	0.00	097.95	099.38	098.39	098.72	13.90	0.00	101.85	099.83	15.50	0.00	099.58	098.06
8	10.40	0.00	097.92	099.90	098.69	099.14	13.80	0.00	101.74	099.99	13.70	0.00	099.30	097.94
9	10.40	0.00	098.22	100.49	099.24	099.81	14.80	0.00	102.40	100.24	13.80	0.00	099.62	098.23
10	10.70	0.00	098.45	101.24	099.82	100.65	14.80	0.00	102.16	100.70	12.40	0.00	098.78	098.51
11	10.50	0.00	098.75	101.93	100.46	101.48	15.10	0.00	102.07	100.82	13.90	0.00	098.70	098.40
12	10.60	0.00	098.99	102.87	101.15	102.67	14.80	0.00	102.07	100.98	13.20	0.00	098.60	098.43
13	10.50	0.00	099.22	103.65	101.60	103.68	15.00	0.00	101.99	101.02	13.50	0.00	098.16	098.77
14	10.50	0.00	099.41	104.33	102.09	104.57	18.80	0.00	102.18	100.94	13.20	0.00	098.84	098.78
15	10.40	0.00	099.48	104.98	102.15	105.16	19.00	0.00	102.38	101.07	13.00	0.00	099.16	098.75
16	10.50	0.00	099.29	105.24	102.19	105.50	26.50	0.00	103.15	101.09	13.00	0.00	099.23	000.00
17	10.50	0.00	099.17	105.05	102.15	105.53	28.10	0.00	103.30	100.62	14.90	0.00	099.38	105.58
18	10.70	0.00	099.00	103.83	101.70	105.27	36.30	0.00	103.74	100.74	25.90	0.00	098.98	101.53
19	10.50	0.00	099.17	103.02	101.00	104.58	35.70	0.00	104.16	100.22	36.30	0.00	098.33	099.66
20	10.50	0.00	098.38	102.24	100.23	103.70	36.20	0.00	103.53	100.03	40.80	0.00	098.44	098.40
21	10.50	0.00	098.28	101.59	099.69	102.98	36.20	0.00	103.22	099.81	42.30	0.00	097.68	098.09
22	10.50	0.00	098.22	101.17	099.36	102.34	36.40	0.00	103.01	099.76	42.20	0.00	097.90	097.89
23	10.70	0.00	098.19	100.69	099.19	101.77	37.40	0.00	102.43	099.73	40.60	0.00	098.80	097.97
24	10.60	0.00	098.12	100.26	098.84	101.35	35.60	0.00	102.27	099.74	35.40	0.00	099.30	098.13
	LOWER MONUMENTAL			ICE HARBOR			MCNARY			PASCO				
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	30.90	0.00	103.64	099.30	29.50	0.00	100.39	100.36	66.90	0.00	102.82	102.08	101.29	103.26
2	19.10	0.00	102.57	098.86	22.50	0.00	101.86	100.21	68.30	0.00	103.10	102.07	101.28	103.08
3	17.90	0.00	101.68	098.36	20.30	0.00	101.55	100.08	69.50	0.00	102.70	102.17	101.24	102.96
4	18.90	0.00	101.25	098.05	20.60	0.00	101.27	099.89	80.80	0.00	102.45	101.73	101.17	102.80
5	19.60	0.00	101.10	097.93	20.30	0.00	100.87	100.03	84.10	0.00	102.14	101.95	101.16	102.67
6	19.20	0.00	100.43	097.77	20.30	0.00	100.96	099.00	88.00	0.00	102.38	101.93	101.13	102.63
7	9.70	2.50	099.70	097.70	13.50	0.00	099.34	099.01	97.20	0.00	102.21	101.62	101.27	102.45
8	14.10	6.80	099.30	105.71	12.90	0.00	098.10	099.12	98.10	0.00	103.06	101.74	101.37	102.17
9	12.90	7.00	099.33	107.89	13.40	0.00	098.38	099.35	94.30	0.00	103.34	103.76	101.65	101.88
10	12.90	7.00	098.64	110.07	11.60	0.00	098.13	100.31	98.70	0.00	101.99	103.41	101.90	102.26
11	14.40	7.10	098.51	111.35	11.60	0.00	098.12	100.69	98.00	0.00	101.99	102.63	102.35	101.89
12	12.80	6.90	098.43	112.64	12.20	0.00	099.38	101.24	96.20	0.00	103.78	102.24	102.39	102.11
13	14.40	7.10	098.50	114.76	10.70	0.00	098.77	101.56	95.50	0.00	104.62	101.92	102.47	102.43
14	12.90	7.00	098.94	115.09	10.70	0.00	098.77	102.61	95.60	0.00	105.63	102.14	102.42	102.64
15	12.90	7.00	098.74	115.60	12.50	0.00	098.86	102.62	93.40	0.00	106.03	102.37	102.24	102.94
16	12.90	7.10	098.37	115.00	12.30	0.00	099.06	102.11	89.30	0.00	106.04	102.39	102.28	103.41
17	13.30	6.60	098.29	114.50	10.80	0.00	099.75	102.72	78.30	0.00	105.40	102.17	102.32	103.43
18	19.30	0.00	098.32	114.38	11.30	0.00	099.80	102.17	79.50	0.00	104.66	102.33	102.48	103.61
19	28.50	0.00	098.71	108.11	21.80	0.00	100.05	102.72	78.70	0.00	104.12	103.38	102.36	103.45
20	38.30	0.00	099.48	103.85	36.50	0.00	100.16	101.59	103.20	0.00	104.47	104.04	102.02	103.17
21	39.10	0.00	100.51	101.33	39.10	0.00	100.63	100.83	116.70	0.00	104.22	102.40	101.92	102.75
22	38.10	0.00	100.73	100.21	39.50	0.00	100.82	099.97	109.80	0.00	103.90	102.20	101.98	102.66
23	38.10	0.00	101.21	099.61	39.30	0.00	100.50	100.19	113.50	0.00	104.14	102.05	101.69	102.44
24	39.40	0.00	101.03	099.05	39.20	0.00	099.96	100.01	81.60	0.00	103.98	102.16	101.53	102.44

20 AUG 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

20 AUG 2001

	DWRSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	
1	10.40	0.00	098.22	100.05	098.98	108.35	15.30	0.00	102.96	099.30	18.10	0.00	100.38	098.20	
2	10.40	0.00	098.22	099.69	098.83	108.59	14.90	0.00	102.54	099.29	17.20	0.00	100.51	098.20	
3	10.30	0.00	098.23	099.59	098.70	108.74	15.30	0.00	102.00	099.31	18.00	0.00	100.24	098.35	
4	10.50	0.00	098.25	099.40	098.68	108.59	15.00	0.00	101.32	099.02	17.50	0.00	100.23	098.29	
5	10.30	0.00	097.96	099.21	098.50	108.73	14.60	0.00	101.29	099.95	17.60	0.00	100.90	098.45	
6	10.30	0.00	097.88	099.17	098.50	108.70	14.50	0.00	101.13	099.80	17.80	0.00	100.48	098.45	
7	10.30	0.00	097.87	099.44	098.46	108.68	14.40	0.00	101.28	099.62	12.70	0.00	100.19	098.53	
8	10.40	0.00	098.00	100.14	098.87	108.60	15.70	0.00	101.94	100.20	12.90	0.00	100.32	098.54	
9	10.40	0.00	098.36	101.11	099.33	108.68	16.60	0.00	102.28	100.50	13.00	0.00	100.09	099.10	
10	10.40	0.00	098.72	102.04	099.96	108.59	16.40	0.00	102.97	100.85	13.10	0.00	101.20	099.45	
11	10.40	0.00	098.94	102.94	100.82	108.73	16.30	0.00	103.58	101.02	13.40	0.00	101.14	099.64	
12	10.10	0.00	099.22	103.92	101.50	108.69	16.70	0.00	103.63	101.23	13.30	0.00	102.54	100.09	
13	8.30	0.00	099.09	104.60	101.86	108.75	26.30	0.00	104.69	101.54	19.00	0.00	103.00	100.71	
14	9.00	0.00	099.43	105.05	102.73	108.88	27.10	0.00	104.21	101.61	19.60	0.00	104.69	101.20	
15	10.40	0.00	099.23	105.24	102.81	108.84	28.40	0.00	105.23	101.42	21.00	0.00	104.38	101.40	
16	10.10	0.00	099.15	105.46	102.53	108.91	26.70	0.00	105.36	101.50	20.10	0.00	103.81	101.47	
17	10.60	0.00	099.28	105.19	102.09	108.76	28.50	0.00	104.95	101.26	28.70	0.00	103.05	101.66	
18	10.60	0.00	099.03	104.13	101.80	105.53	28.40	0.00	104.68	101.45	37.70	0.00	102.48	101.10	
19	10.40	0.00	099.28	103.47	101.15	105.01	28.30	0.00	105.11	100.61	37.90	0.00	102.09	100.71	
20	10.50	0.00	098.37	102.54	100.37	104.00	29.40	0.00	103.85	100.46	32.10	0.00	101.93	100.46	
21	10.50	0.00	098.29	101.76	099.69	103.10	27.20	0.00	104.29	100.50	31.80	0.00	101.43	100.05	
22	10.40	0.00	098.19	101.30	099.38	102.49	26.80	0.00	103.57	100.34	33.60	0.00	101.58	099.97	
23	10.40	0.00	098.16	100.86	099.12	101.92	19.80	0.00	103.33	100.19	26.70	0.00	101.31	099.95	
24	10.40	0.00	098.11	100.40	098.99	101.31	16.30	0.00	103.35	100.26	21.20	0.00	101.08	099.66	
	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT	
1	21.70	0.00	102.54	098.28	27.40	0.00	104.92	100.49	67.00	0.00	104.42	102.72	101.95	102.82	
2	17.50	0.00	102.64	098.24	18.20	0.00	104.40	100.47	69.10	0.00	103.62	105.93	102.07	102.84	
3	14.30	0.00	102.80	098.24	11.60	0.00	103.74	100.47	77.90	0.00	103.31	104.73	102.16	102.86	
4	13.90	0.00	102.75	097.95	9.40	0.00	102.38	100.32	88.40	0.00	103.32	105.75	102.19	102.81	
5	14.70	0.00	102.76	098.07	9.40	0.00	101.48	100.31	111.60	0.00	103.44	106.20	102.06	102.65	
6	13.40	0.00	102.57	097.88	9.30	0.00	102.75	100.29	101.60	0.00	102.62	105.87	102.02	102.53	
7	13.50	7.60	102.31	098.24	10.80	0.00	102.25	100.17	103.60	0.00	104.04	105.87	101.99	102.37	
8	11.70	5.90	101.92	107.42	9.80	0.00	102.37	100.52	99.10	0.00	103.77	105.19	102.23	102.10	
9	11.60	5.80	102.24	109.91	9.90	0.00	102.51	100.89	93.50	0.00	103.71	105.09	102.41	102.12	
10	11.50	5.70	103.19	111.60	9.90	0.00	101.58	101.77	93.10	0.00	103.19	103.37	102.54	102.13	
11	11.60	5.80	103.50	113.38	10.00	0.00	102.26	102.00	93.60	0.00	104.00	102.45	102.58	102.57	
12	13.10	5.80	103.45	114.71	9.90	0.00	102.18	103.27	88.00	0.00	103.58	102.43	102.93	102.93	
13	11.60	5.80	103.52	115.47	10.90	0.00	102.02	103.72	88.40	0.00	102.14	102.64	102.79	103.49	
14	11.60	5.80	103.59	116.46	19.60	0.00	101.65	104.10	87.50	0.00	102.49	103.25	103.09	103.98	
15	11.60	5.80	103.68	117.11	18.40	0.00	101.74	104.67	87.20	0.00	105.66	102.78	103.17	104.19	
16	11.60	5.80	103.49	117.20	23.90	0.00	103.82	104.82	70.40	0.00	107.31	102.86	103.02	104.45	
17	11.50	5.70	103.48	117.28	25.10	0.00	103.74	103.39	68.20	0.00	105.26	103.07	102.93	104.47	
18	30.20	3.30	103.64	115.95	36.20	0.00	103.11	102.55	67.70	0.00	103.02	103.91	103.39	104.63	
19	40.10	0.00	106.09	108.32	39.30	0.00	102.34	102.72	68.10	0.00	102.14	104.50	103.29	104.97	
20	38.80	0.00	105.94	104.19	37.30	0.00	101.80	101.74	68.70	0.00	102.62	103.76	103.09	104.71	
21	39.40	0.00	105.08	101.62	37.40	0.00	103.05	101.37	73.60	0.00	102.74	103.10	102.45	104.29	
22	38.80	0.00	105.47	100.48	37.80	0.00	100.54	101.02	68.50	0.00	104.34	103.27	102.12	103.93	
23	37.90	0.00	105.28	100.17	36.90	0.00	099.85	100.82	66.50	0.00	104.03	102.83	101.84	103.72	
24	36.90	0.00	105.06	099.50	35.70	0.00	099.36	100.49	66.20	0.00	103.31	102.11	101.49	103.72	

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WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

19 AUG 2001

	DWORSHAK			STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	10.50	0.00	097.83	099.47	098.52	108.68	16.30	0.00	101.84	098.77	17.40	0.00	097.53	096.72
2	10.30	0.00	097.81	099.32	098.45	108.69	16.30	0.00	101.84	098.61	15.20	0.00	097.53	096.70
3	10.30	0.00	097.77	099.14	098.48	108.56	16.10	0.00	101.68	098.46	15.90	0.00	097.64	096.55
4	10.30	0.00	097.58	099.12	098.35	108.56	14.30	0.00	101.57	098.72	15.80	0.00	097.74	096.54
5	10.50	0.00	097.55	099.06	098.24	108.64	14.20	0.00	101.57	099.09	15.40	0.00	097.84	096.51
6	10.40	0.00	097.62	098.89	098.09	108.62	16.00	0.00	101.49	099.22	15.00	0.00	097.84	096.47
7	10.40	0.00	097.57	098.98	098.12	108.64	16.20	0.00	101.26	099.14	16.30	0.00	097.93	096.42
8	10.40	0.00	097.56	099.64	098.55	108.65	16.20	0.00	101.11	099.39	16.40	0.00	097.79	096.71
9	10.40	0.00	097.88	100.38	099.01	108.54	16.80	0.00	101.05	099.83	16.50	0.00	097.53	097.01
10	10.50	0.00	097.97	101.24	099.66	108.59	27.70	0.00	101.46	099.97	16.70	0.00	097.42	097.15
11	10.30	0.00	098.32	102.09	100.24	108.67	28.60	0.00	101.66	100.21	28.40	0.00	098.01	097.62
12	10.30	0.00	098.54	103.03	100.96	108.58	28.10	0.00	101.58	100.24	29.10	0.00	098.36	097.78
13	10.30	0.00	098.66	103.82	101.43	108.74	28.10	0.00	102.73	100.29	29.00	0.00	098.62	097.88
14	10.30	0.00	098.85	104.46	101.86	108.80	28.20	0.00	103.11	100.52	29.00	0.00	098.78	097.96
15	10.50	0.00	099.09	104.95	101.88	108.78	29.80	0.00	103.46	100.64	31.00	0.00	098.74	098.17
16	10.30	0.00	099.01	105.21	102.13	108.75	28.20	0.00	103.82	100.86	30.40	0.00	099.37	098.64
17	10.30	0.00	098.97	104.82	102.02	108.82	28.70	0.00	104.15	100.78	29.00	0.00	099.57	098.84
18	10.30	0.00	098.68	103.79	101.70	108.76	29.90	0.00	104.19	100.54	29.00	0.00	100.40	098.76
19	10.50	0.00	098.97	103.15	101.17	108.76	28.10	0.00	104.38	100.34	29.20	0.00	100.48	098.43
20	10.30	0.00	098.31	102.31	100.45	108.73	28.10	0.00	104.40	100.07	31.10	0.00	100.47	098.18
21	10.30	0.00	098.26	101.52	099.81	108.70	28.00	0.00	103.94	100.05	28.80	0.00	100.74	098.55
22	10.30	0.00	098.23	101.13	099.50	108.70	28.30	0.00	103.71	100.03	28.50	0.00	100.32	098.69
23	10.30	0.00	098.23	100.73	099.36	108.56	27.70	0.00	103.20	099.69	28.60	0.00	100.48	098.47
24	10.50	0.00	098.21	100.34	099.07	108.41	25.40	0.00	103.17	099.56	27.00	0.00	100.74	098.33

HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO	
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT
1	16.80	0.00	100.20	097.43	19.30	0.00	100.36	098.58	74.10	0.00	103.02	102.66	101.61	103.86
2	14.30	0.00	100.08	097.41	18.90	0.00	100.56	098.73	66.30	0.00	103.07	102.42	101.61	103.73
3	15.80	0.00	100.04	097.39	14.60	0.00	100.15	098.86	66.10	0.00	103.01	102.41	101.60	103.73
4	15.90	0.00	100.17	097.32	10.20	0.00	099.72	098.83	64.00	0.00	103.09	102.38	101.60	103.56
5	15.70	0.00	100.09	097.28	11.60	0.00	099.99	098.70	60.10	0.00	102.94	102.59	101.44	103.29
6	15.90	0.00	099.91	097.27	10.20	0.00	099.83	098.42	81.20	0.00	102.78	102.06	101.53	103.02
7	16.00	0.00	099.75	097.34	12.20	0.00	099.76	099.07	95.20	0.00	102.88	102.96	101.62	102.55
8	16.00	0.00	099.60	097.59	12.00	0.00	099.59	100.46	95.90	0.00	102.90	102.67	101.77	102.42
9	17.80	0.00	099.40	098.30	12.10	0.00	099.32	100.30	95.30	0.00	102.90	102.97	102.00	102.18
10	15.70	0.00	099.40	099.99	13.70	0.00	099.38	101.02	93.10	0.00	102.96	103.53	102.32	102.19
11	16.80	0.00	099.69	100.35	12.10	0.00	099.00	101.15	93.00	0.00	103.14	103.04	102.69	102.24
12	29.30	0.00	099.76	099.80	12.60	0.00	099.22	101.75	94.00	0.00	103.36	103.15	103.01	102.34
13	28.20	0.00	100.43	100.05	24.90	0.00	099.68	101.69	94.20	0.00	103.86	102.98	103.36	102.41
14	28.00	0.00	100.72	100.27	29.10	0.00	100.17	101.94	93.00	0.00	103.54	103.37	103.44	102.51
15	29.10	0.00	101.47	100.27	30.70	0.00	101.02	101.05	93.30	0.00	103.59	103.33	103.56	102.55
16	33.60	0.00	101.31	100.25	29.40	0.00	101.01	101.24	92.20	0.00	103.55	103.28	103.53	102.66
17	36.60	0.00	101.69	100.09	37.10	0.00	101.73	101.94	92.70	0.00	103.78	103.39	103.49	102.75
18	36.60	0.00	101.85	100.01	37.60	0.00	102.10	101.20	92.60	0.00	103.97	103.54	103.27	102.82
19	37.30	0.00	102.20	099.40	38.10	0.00	102.31	101.13	93.20	0.00	105.51	103.37	102.94	102.87
20	39.20	0.00	104.35	099.06	37.60	0.00	102.74	101.03	106.00	0.00	105.66	102.85	102.83	102.87
21	39.20	0.00	103.51	098.72	37.50	0.00	102.73	100.75	107.60	0.00	105.29	102.80	102.56	102.90
22	38.80	0.00	101.80	098.65	37.20	0.00	103.26	100.75	106.20	0.00	105.17	102.68	102.44	102.73
23	34.10	0.00	101.94	098.41	36.90	0.00	103.05	100.68	104.00	0.00	105.20	102.73	102.20	102.80
24	32.10	0.00	101.96	098.41	37.10	0.00	103.05	100.71	71.10	0.00	104.40	102.69	101.97	102.80

18 AUG 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

18 AUG 2001

	DWRSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	
1	10.30	0.00	097.95	100.05	099.05	108.16	14.10	0.00	104.34	099.07	14.20	0.00	099.30	098.45	
2	10.30	0.00	097.88	099.90	098.91	108.41	14.20	0.00	103.19	098.90	14.00	0.00	099.29	098.30	
3	10.30	0.00	097.86	100.00	098.88	108.39	16.20	0.00	102.34	098.67	15.40	0.00	099.06	098.24	
4	10.50	0.00	097.94	099.96	098.68	108.72	16.40	0.00	101.09	098.64	14.10	0.00	098.66	098.13	
5	10.30	0.00	097.78	099.77	098.65	108.76	16.00	0.00	100.62	099.30	13.90	0.00	098.33	098.02	
6	10.30	0.00	097.55	099.58	098.59	108.72	16.10	0.00	100.16	099.11	13.80	0.00	098.03	097.72	
7	10.30	0.00	097.67	099.50	098.65	108.63	16.60	0.00	100.39	099.18	14.00	0.00	097.72	097.70	
8	10.30	0.00	097.78	099.76	098.89	108.59	25.30	0.00	101.05	099.44	17.60	0.00	097.85	097.76	
9	10.50	0.00	098.05	100.41	099.47	108.54	29.20	0.00	101.17	099.67	21.00	0.00	097.95	097.87	
10	10.30	0.00	098.24	101.12	100.04	108.59	29.50	0.00	101.56	099.81	27.50	0.00	097.60	098.05	
11	10.40	0.00	098.67	101.80	100.69	108.63	31.60	0.00	102.08	100.08	29.70	0.00	097.42	097.75	
12	10.30	0.00	098.71	102.95	101.50	108.68	31.60	0.00	102.26	100.08	31.40	0.00	097.02	097.76	
13	10.30	0.00	098.89	103.84	101.62	108.73	32.30	0.00	102.57	100.12	34.20	0.00	097.18	097.68	
14	10.50	0.00	098.90	104.76	102.27	108.76	31.80	0.00	102.46	100.28	33.80	0.00	098.43	097.72	
15	10.20	0.00	099.38	105.05	102.15	108.87	33.80	0.00	102.68	100.11	36.10	0.00	098.22	097.62	
16	10.30	0.00	099.29	105.12	102.33	108.88	32.10	0.00	103.00	100.42	34.50	0.00	097.59	097.82	
17	10.50	0.00	099.02	104.67	102.11	108.87	32.10	0.00	102.58	100.17	34.30	0.00	097.76	097.71	
18	10.30	0.00	098.85	103.69	101.83	108.80	34.50	0.00	102.54	100.01	34.30	0.00	096.85	097.58	
19	10.30	0.00	099.02	102.85	101.06	108.75	31.90	0.00	102.58	099.76	35.60	0.00	096.97	097.46	
20	10.30	0.00	098.21	101.90	100.37	108.69	33.50	0.00	102.71	099.58	35.30	0.00	097.63	097.14	
21	10.30	0.00	098.09	101.29	099.69	108.69	27.30	0.00	102.49	099.81	35.10	0.00	097.74	097.04	
22	10.50	0.00	097.94	100.77	099.25	108.51	26.50	0.00	102.18	099.34	30.70	0.00	097.82	096.74	
23	10.50	0.00	097.81	100.28	099.05	108.36	26.30	0.00	102.07	099.14	30.10	0.00	097.91	096.68	
24	10.20	0.00	097.75	099.82	098.70	108.33	16.90	0.00	101.88	098.93	21.70	0.00	097.82	096.47	
	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT	
1	15.20	0.00	100.23	097.89	9.70	0.00	099.56	098.32	94.10	0.00	105.07	102.70	101.59	105.50	
2	14.30	0.00	099.60	098.79	9.30	0.00	100.23	098.18	76.00	0.00	104.14	102.28	101.67	105.19	
3	14.00	0.00	099.44	098.21	9.40	0.00	100.23	098.01	77.30	0.00	104.20	103.44	101.87	104.87	
4	14.00	0.00	099.13	097.72	10.70	0.00	099.36	097.99	74.80	0.00	103.66	103.80	101.71	104.73	
5	14.00	0.00	099.00	097.56	9.30	0.00	099.08	097.97	75.00	0.00	103.31	103.61	101.64	104.39	
6	15.30	0.00	098.66	097.49	9.20	0.00	098.92	097.79	81.10	0.00	103.31	103.30	101.64	104.13	
7	15.50	0.00	098.88	098.23	9.20	0.00	098.96	098.13	79.30	0.00	103.23	103.48	101.63	103.76	
8	14.00	0.00	099.11	097.93	12.10	0.00	098.78	098.86	83.40	0.00	103.59	102.01	101.61	103.44	
9	14.40	0.00	099.37	099.40	12.00	0.00	098.50	099.97	89.20	0.00	104.07	102.78	101.83	103.44	
10	21.50	0.00	099.48	099.28	14.50	0.00	099.16	100.53	92.00	0.00	104.19	103.18	102.15	103.60	
11	27.70	0.00	099.48	099.47	19.40	0.00	099.06	100.62	93.80	0.00	104.50	102.29	102.41	103.85	
12	32.50	0.00	099.81	100.12	25.10	0.00	099.45	100.92	95.40	0.00	104.63	102.84	102.72	104.17	
13	34.50	0.00	099.80	099.89	33.10	0.00	100.43	100.85	100.70	0.00	104.41	103.02	103.05	104.59	
14	34.60	0.00	100.00	099.95	35.80	0.00	100.07	101.41	101.60	0.00	104.30	103.85	103.20	104.92	
15	36.70	0.00	100.16	100.04	35.60	0.00	099.72	100.65	101.60	0.00	104.49	104.31	103.49	105.24	
16	34.50	0.00	100.92	100.37	35.70	0.00	100.48	101.24	102.10	0.00	104.16	104.00	103.53	105.56	
17	34.40	0.00	101.50	099.76	35.60	0.00	099.55	100.63	103.50	0.00	104.29	103.43	103.85	105.86	
18	34.50	0.00	101.25	099.37	35.60	0.00	099.69	100.35	103.20	0.00	104.29	103.87	103.44	105.98	
19	34.90	0.00	101.45	098.65	36.40	0.00	098.57	099.88	104.20	0.00	104.96	103.84	103.04	105.77	
20	35.40	0.00	101.38	098.13	37.10	0.00	098.64	099.36	99.40	0.00	104.96	103.29	102.77	105.32	
21	35.20	0.00	101.30	097.86	36.30	0.00	098.40	098.80	100.50	0.00	104.48	102.93	102.30	104.82	
22	35.80	0.00	101.24	097.75	36.30	0.00	099.04	098.90	90.70	0.00	103.82	102.52	102.15	104.80	
23	34.80	0.00	101.10	097.71	35.70	0.00	099.28	098.82	88.90	0.00	103.53	102.64	101.93	104.32	
24	21.60	0.00	100.77	097.49	27.10	0.00	100.27	098.74	78.50	0.00	103.34	102.70	101.78	104.32	

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WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

17 AUG 2001

	DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	
1	10.80	0.00	098.16	100.38	099.44	108.60	14.10	0.00	110.44	099.62	16.60	0.00	108.27	098.44	
2	10.60	0.00	098.11	100.33	099.29	108.41	13.80	0.00	109.57	099.31	15.60	0.00	107.34	098.27	
3	10.60	0.00	097.95	100.29	099.07	108.49	13.80	0.00	109.42	099.31	12.50	0.00	106.30	098.19	
4	10.60	0.00	097.90	100.35	099.10	108.32	13.90	0.00	109.10	099.26	14.10	0.00	105.69	098.02	
5	10.60	0.00	097.87	100.14	098.84	108.52	16.00	0.00	109.31	099.87	14.80	0.00	103.81	097.86	
6	10.70	0.00	097.96	099.97	098.84	108.33	17.70	0.00	108.72	099.87	14.20	0.00	101.61	097.79	
7	10.60	0.00	098.02	099.80	098.87	108.69	17.50	0.00	108.00	099.65	14.20	0.00	100.48	097.65	
8	10.60	0.00	098.06	100.05	099.32	108.66	23.40	0.00	108.24	100.00	17.50	0.00	102.43	097.85	
9	10.50	0.00	098.21	100.58	099.86	108.66	21.50	0.00	107.86	100.56	17.80	0.00	101.35	098.09	
10	10.50	0.00	098.41	101.30	100.53	108.72	30.70	0.00	108.76	100.43	21.10	0.00	100.87	098.57	
11	10.50	0.00	098.61	102.20	101.05	108.73	40.10	0.00	108.57	100.74	27.20	0.00	100.21	098.97	
12	10.50	0.00	099.01	103.10	101.70	108.80	42.30	0.00	109.43	100.78	40.90	0.00	100.38	099.40	
13	10.50	0.00	099.05	103.95	102.28	109.03	40.60	0.00	109.37	100.71	42.60	0.00	100.07	099.48	
14	10.50	0.00	099.37	104.72	102.73	108.95	40.70	0.00	109.30	100.78	42.90	0.00	099.70	099.57	
15	10.50	0.00	099.28	105.24	102.80	108.87	41.40	0.00	108.64	100.81	44.30	0.00	099.89	099.60	
16	10.30	0.00	099.35	105.38	103.00	108.95	40.80	0.00	107.27	100.75	42.80	0.00	099.96	099.68	
17	10.30	0.00	099.09	105.12	102.71	108.83	40.60	0.00	107.40	100.66	43.40	0.00	100.27	099.42	
18	10.50	0.00	098.95	104.48	102.28	108.74	36.40	0.00	106.34	100.53	38.50	0.00	100.31	099.32	
19	10.30	0.00	099.09	103.50	101.79	108.57	32.10	0.00	105.41	100.28	38.20	0.00	100.28	099.09	
20	10.30	0.00	098.04	102.63	100.79	108.69	31.60	0.00	106.19	100.24	38.20	0.00	100.39	098.77	
21	10.30	0.00	097.96	101.79	100.00	108.58	19.40	0.00	106.12	099.92	29.70	0.00	099.80	098.55	
22	10.30	0.00	098.04	101.26	099.71	108.52	17.20	0.00	105.67	100.15	22.70	0.00	100.07	098.54	
23	10.50	0.00	098.02	100.83	099.43	108.55	17.30	0.00	104.77	099.73	16.80	0.00	100.03	098.58	
24	10.30	0.00	097.99	100.39	099.25	108.34	14.20	0.00	104.64	099.03	15.90	0.00	099.60	098.37	
	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT	
1	16.00	0.00	100.04	098.47	12.90	0.00	099.77	098.49	65.30	0.00	109.13	104.38	102.82	106.24	
2	13.90	0.00	099.70	098.41	12.80	0.00	098.24	098.23	66.40	0.00	107.73	104.35	102.87	106.06	
3	14.00	0.00	099.56	098.92	12.90	0.00	097.82	098.05	64.10	0.00	107.21	104.32	103.27	105.76	
4	14.00	0.00	099.49	098.32	13.20	0.00	097.70	097.84	86.00	0.00	107.20	104.39	103.36	105.33	
5	14.90	0.00	099.48	098.25	13.00	0.00	097.33	098.09	109.70	0.00	108.10	104.54	102.95	104.84	
6	13.50	0.00	099.32	098.21	14.40	0.00	097.21	098.20	109.60	0.00	108.04	104.11	102.76	104.46	
7	13.90	0.00	099.29	098.17	12.90	0.00	097.39	098.19	110.60	0.00	107.63	104.04	102.45	103.92	
8	13.60	0.00	099.14	098.44	13.00	0.00	097.40	098.24	117.40	0.00	106.99	103.47	102.52	103.77	
9	15.00	0.00	099.22	098.92	13.20	0.00	096.93	098.48	119.70	0.00	106.44	103.75	102.55	103.91	
10	18.50	0.00	099.33	099.87	14.40	0.00	096.65	099.04	113.20	0.00	106.59	103.75	102.90	104.13	
11	22.30	0.00	099.34	100.60	13.00	0.00	096.37	100.55	113.20	0.00	107.06	103.54	103.12	104.44	
12	34.90	0.00	099.12	100.00	29.90	0.00	097.39	100.09	111.60	0.00	107.46	103.96	103.30	104.79	
13	42.30	0.00	099.18	099.99	39.90	0.00	097.33	101.12	100.80	0.00	107.32	103.39	103.24	105.26	
14	44.70	0.00	098.97	100.04	45.90	0.00	097.92	099.57	94.40	0.00	106.98	103.36	103.36	105.70	
15	45.60	0.00	099.06	100.03	48.90	0.00	097.82	099.17	99.50	0.00	107.03	103.43	103.15	106.05	
16	45.60	0.00	099.41	100.40	46.00	0.00	098.84	099.39	101.90	0.00	106.75	103.24	103.09	106.64	
17	43.90	0.00	100.09	100.08	44.40	0.00	098.37	099.41	121.00	0.00	107.03	103.51	103.16	107.23	
18	44.20	0.00	100.71	099.97	45.90	0.00	098.77	099.39	118.20	0.00	107.38	103.74	102.92	107.55	
19	42.50	0.00	099.88	099.32	42.30	0.00	099.21	099.96	119.80	0.00	107.20	103.32	102.66	107.83	
20	41.60	0.00	100.27	098.98	43.60	0.00	099.45	099.13	120.10	0.00	107.44	103.54	102.50	107.55	
21	37.50	0.00	101.09	098.69	42.10	0.00	099.89	098.83	123.90	0.00	106.75	102.96	102.07	106.85	
22	28.90	0.00	100.36	098.57	38.20	0.00	100.67	098.80	119.70	0.00	105.67	102.58	101.92	106.45	
23	19.00	0.00	100.20	098.38	29.20	0.00	100.92	098.71	120.70	0.00	105.71	102.33	101.78	106.29	
24	13.90	0.00	100.33	098.12	17.90	0.00	100.61	098.54	120.00	0.00	106.05	102.50	101.72	106.29	

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WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

16 AUG 2001

	DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	
1	10.50	0.00	098.11	100.15	099.33	101.09	14.10	0.00	110.09	099.39	14.50	0.00	107.49	098.74	
2	10.30	0.00	098.06	099.82	099.21	100.65	13.80	0.00	109.54	099.42	13.70	0.00	108.56	098.71	
3	10.50	0.00	097.86	099.51	099.17	100.19	13.80	0.00	109.76	099.21	13.30	0.00	106.66	098.54	
4	10.30	0.00	097.96	099.46	098.95	099.93	13.90	0.00	109.43	099.06	13.40	0.00	106.21	098.37	
5	10.50	0.00	097.94	099.19	098.95	099.57	13.80	0.00	110.48	099.69	16.30	0.00	104.68	098.19	
6	10.30	0.00	097.87	099.17	098.84	099.26	16.10	0.00	110.57	099.76	17.00	0.00	103.11	098.15	
7	10.50	0.00	097.81	099.20	098.97	099.22	16.30	0.00	110.87	099.72	18.50	0.00	104.16	097.95	
8	10.40	0.00	097.95	099.72	099.39	099.46	20.40	0.00	111.01	100.12	22.00	0.00	103.60	098.33	
9	10.40	0.00	098.09	100.57	099.95	100.13	20.50	0.00	110.98	100.62	22.00	0.00	105.16	098.60	
10	10.40	0.00	098.27	101.38	100.34	100.96	24.20	0.00	110.78	100.82	26.00	0.00	106.31	098.89	
11	10.40	0.00	098.45	102.55	101.07	101.97	25.50	0.00	110.56	100.67	25.00	0.00	106.61	099.32	
12	10.40	0.00	098.41	103.58	101.85	103.02	25.30	0.00	110.89	100.91	24.70	0.00	107.50	099.22	
13	10.40	0.00	098.64	104.68	102.11	104.05	26.00	0.00	111.37	100.88	24.70	0.00	108.08	099.21	
14	10.40	0.00	098.84	105.32	102.76	108.36	30.50	0.00	111.86	101.09	28.10	0.00	109.15	099.28	
15	10.50	0.00	098.95	105.86	102.72	108.69	32.70	0.00	112.36	101.39	29.90	0.00	107.77	099.42	
16	10.60	0.00	099.01	105.90	102.77	108.59	32.20	0.00	112.98	101.34	30.30	0.00	110.41	099.46	
17	10.60	0.00	098.94	105.73	102.71	108.68	32.30	0.00	113.41	101.26	30.10	0.00	111.05	099.52	
18	10.70	0.00	098.69	104.82	102.28	108.54	32.40	0.00	113.34	101.18	29.90	0.00	111.62	099.57	
19	10.40	0.00	098.94	104.06	101.64	108.57	32.60	0.00	113.53	101.03	30.20	0.00	111.40	099.57	
20	10.30	0.00	098.08	103.07	100.97	108.68	21.50	0.00	112.25	100.74	31.30	0.00	112.40	099.81	
21	10.50	0.00	098.19	102.19	100.30	108.65	17.70	0.00	112.33	100.15	25.40	0.00	111.93	099.40	
22	10.60	0.00	098.23	101.63	100.00	108.59	19.10	0.00	112.36	100.20	24.70	0.00	111.89	099.06	
23	10.60	0.00	098.11	101.18	099.75	108.41	17.40	0.00	111.77	100.12	24.60	0.00	110.65	098.91	
24	10.60	0.00	098.16	100.71	099.52	108.23	17.50	0.00	110.89	099.66	16.90	0.00	109.24	098.57	
	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT	
1	26.10	0.00	105.60	098.81	31.10	0.00	105.33	099.68	73.30	0.00	107.31	106.32	103.69	106.07	
2	16.70	0.00	103.41	098.41	24.90	0.00	104.59	099.39	69.70	0.00	110.03	107.33	103.50	105.88	
3	15.50	0.00	104.16	098.86	18.20	0.00	103.40	099.07	70.00	0.00	110.25	107.57	103.47	105.84	
4	14.00	0.00	105.22	099.75	12.60	0.00	102.49	099.69	90.70	0.00	109.99	107.35	103.71	105.56	
5	16.60	0.00	104.66	098.88	9.90	0.00	100.96	098.89	121.00	0.00	109.94	107.62	103.65	105.25	
6	14.10	0.00	105.39	098.91	11.60	0.00	101.46	098.35	134.10	0.00	109.66	107.88	103.73	104.91	
7	15.40	0.00	105.60	098.61	10.00	0.00	101.66	098.16	132.70	0.00	109.09	108.21	103.68	104.62	
8	21.50	0.00	106.60	098.71	21.30	0.00	102.54	098.73	132.90	0.00	108.51	107.73	103.75	104.40	
9	21.40	0.00	107.15	099.11	21.80	0.00	102.52	099.53	136.20	0.00	109.15	107.74	103.75	104.55	
10	21.40	0.00	107.79	099.57	21.80	0.00	102.51	101.34	132.20	0.00	109.58	108.04	104.03	104.67	
11	27.00	0.00	108.13	100.01	25.10	0.00	101.74	100.56	138.90	0.00	109.58	107.13	104.33	104.98	
12	28.10	0.00	107.98	101.12	25.70	0.00	100.83	100.85	124.00	0.00	109.21	108.28	104.68	105.28	
13	26.60	0.00	108.04	101.41	25.20	0.00	102.10	101.23	103.80	0.00	109.03	107.01	104.88	105.65	
14	26.60	0.00	108.13	100.98	25.10	0.00	102.57	101.45	103.00	0.00	109.77	107.48	104.94	105.96	
15	28.30	0.00	108.12	101.10	25.20	0.00	102.68	100.94	103.50	0.00	110.27	107.03	105.06	106.28	
16	29.60	0.00	107.51	100.97	30.40	0.00	106.91	100.75	103.60	0.00	110.55	107.10	104.98	106.77	
17	30.00	0.00	108.15	100.90	31.50	0.00	106.43	100.79	106.70	0.00	110.61	106.78	104.79	107.00	
18	30.40	0.00	108.33	100.66	30.90	0.00	106.07	101.11	143.70	0.00	113.01	107.07	104.82	107.03	
19	30.10	0.00	108.19	100.07	31.00	0.00	106.22	100.55	141.60	0.00	112.15	106.94	104.41	107.04	
20	30.10	0.00	105.55	099.46	32.50	0.00	106.07	099.83	141.30	0.00	111.79	105.97	104.23	106.91	
21	30.00	0.00	105.07	099.06	30.90	0.00	103.89	099.45	135.40	0.00	111.01	105.76	103.64	106.72	
22	28.10	0.00	103.00	098.94	29.60	0.00	102.56	099.83	115.20	0.00	111.05	105.92	103.23	106.65	
23	27.40	0.00	101.28	098.82	24.90	0.00	101.85	099.09	98.80	0.00	110.56	105.44	103.05	106.60	
24	26.80	0.00	101.81	098.65	18.40	0.00	101.40	098.81	71.10	0.00	110.08	104.82	102.85	106.60	

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	DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	
1	10.50	0.00	098.40	100.46	099.51	101.26	14.10	0.00	111.97	099.12	13.10	0.00	110.75	098.48	
2	10.30	0.00	098.25	100.16	099.31	100.82	14.10	0.00	111.40	099.15	13.70	0.00	110.68	098.58	
3	10.50	0.00	098.36	100.10	099.16	100.39	14.00	0.00	110.95	098.84	14.10	0.00	110.53	098.30	
4	10.30	0.00	098.29	100.05	099.14	100.09	14.00	0.00	110.96	098.96	15.40	0.00	110.11	098.69	
5	10.30	0.00	098.29	100.07	099.03	099.65	15.80	0.00	112.40	098.94	13.90	0.00	109.42	098.39	
6	10.50	0.00	098.41	099.85	098.95	099.49	26.20	0.00	111.55	101.48	13.90	0.00	109.48	098.18	
7	10.30	0.00	098.35	099.82	099.22	099.29	28.00	0.00	110.75	100.51	14.70	0.00	107.72	098.15	
8	10.50	0.00	098.48	100.08	099.58	099.53	28.20	0.00	110.42	100.34	22.20	0.00	107.95	098.54	
9	10.30	0.00	098.63	100.61	100.19	100.23	28.10	0.00	110.93	100.32	27.40	0.00	108.10	098.94	
10	10.30	0.00	098.67	101.49	100.87	101.06	29.00	0.00	111.11	100.56	27.60	0.00	107.14	098.90	
11	10.50	0.00	098.86	102.53	101.50	101.90	27.90	0.00	111.40	101.41	28.10	0.00	107.35	099.13	
12	10.40	0.00	099.08	103.70	102.09	102.91	28.00	0.00	111.34	101.45	28.30	0.00	108.48	099.17	
13	10.50	0.00	099.31	104.75	102.35	103.97	28.00	0.00	112.10	101.41	29.60	0.00	108.94	099.38	
14	10.70	0.00	099.35	105.47	103.02	104.86	28.00	0.00	112.39	101.36	28.60	0.00	109.44	099.41	
15	10.30	0.00	099.44	105.69	103.18	105.48	27.90	0.00	112.31	101.23	29.40	0.00	110.12	099.76	
16	10.50	0.00	099.35	105.87	103.23	105.76	28.00	0.00	111.49	101.05	28.10	0.00	110.08	099.84	
17	10.30	0.00	098.85	105.64	103.07	105.97	28.00	0.00	110.83	100.96	28.20	0.00	109.85	099.74	
18	10.40	0.00	098.84	104.70	102.53	105.73	30.80	0.00	111.29	100.88	34.30	0.00	110.78	099.52	
19	10.30	0.00	098.85	104.08	101.79	105.20	32.80	0.00	111.97	100.72	36.40	0.00	111.52	099.54	
20	10.50	0.00	098.42	103.16	101.04	104.33	34.10	0.00	112.89	100.54	33.50	0.00	111.11	099.25	
21	10.30	0.00	098.46	102.26	100.46	103.52	32.30	0.00	112.57	100.93	31.50	0.00	110.93	099.18	
22	10.40	0.00	098.41	101.69	100.12	102.76	26.40	0.00	111.56	100.19	31.30	0.00	110.62	098.85	
23	10.30	0.00	098.18	101.07	099.93	102.13	26.10	0.00	110.96	100.04	31.10	0.00	110.39	098.91	
24	10.30	0.00	098.14	100.60	099.65	101.51	18.00	0.00	110.62	099.69	26.50	0.00	108.46	098.77	
	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT	
1	13.80	0.00	106.44	098.80	13.20	0.00	103.76	099.61	97.80	0.00	108.31	106.79	103.74	105.64	
2	13.50	0.00	104.07	098.62	12.80	0.00	102.93	099.49	76.10	0.00	107.37	108.50	103.43	105.36	
3	13.80	0.00	104.22	098.62	14.40	0.00	103.33	099.51	76.20	0.00	107.29	108.01	103.23	105.21	
4	13.60	0.00	104.32	098.61	14.60	0.00	103.68	099.33	77.50	0.00	106.59	107.29	103.08	104.95	
5	13.60	0.00	105.64	098.40	12.90	0.00	104.05	099.28	97.40	0.00	106.59	107.41	102.94	104.60	
6	13.80	0.00	108.25	098.37	14.40	0.00	103.73	099.55	134.80	0.00	107.99	107.77	102.89	104.45	
7	13.50	0.00	108.91	098.38	14.40	0.00	104.89	100.71	137.40	0.00	108.75	106.94	102.83	104.25	
8	15.00	0.00	108.31	098.64	12.90	0.00	105.13	101.13	137.70	0.00	108.97	107.81	102.81	104.03	
9	16.20	0.00	108.85	099.95	13.20	0.00	105.49	100.48	137.40	0.00	108.29	107.56	102.90	104.04	
10	25.40	0.00	108.74	099.77	13.00	0.00	106.29	100.80	137.10	0.00	105.77	107.29	103.06	104.22	
11	28.10	0.00	109.03	100.41	23.60	0.00	107.13	101.77	137.00	0.00	111.36	107.37	103.22	104.62	
12	26.70	0.00	108.93	100.64	25.20	0.00	106.88	101.53	137.50	0.00	108.50	108.10	103.44	104.91	
13	28.30	0.00	109.20	100.67	25.20	0.00	106.16	101.64	137.00	0.00	109.31	106.96	104.39	105.29	
14	26.90	0.00	108.95	101.13	25.70	0.00	106.12	101.49	137.50	0.00	108.54	107.12	104.70	105.57	
15	27.20	0.00	108.21	101.79	26.60	0.00	105.95	101.34	119.60	0.00	110.79	107.21	104.75	105.89	
16	27.10	0.00	107.90	101.63	25.10	0.00	105.84	101.26	93.50	0.00	110.84	107.56	104.82	106.10	
17	28.60	0.00	108.05	101.26	26.90	0.00	105.86	101.85	88.40	0.00	110.31	107.37	104.86	106.14	
18	36.60	0.00	108.60	101.28	34.40	0.00	107.92	100.79	87.20	0.00	110.37	106.99	104.91	106.21	
19	37.10	0.00	109.05	100.48	35.60	0.00	107.32	101.45	87.40	0.00	110.84	106.99	104.93	106.36	
20	37.20	0.00	109.17	099.76	34.90	0.00	107.03	100.70	87.60	0.00	111.45	106.90	104.66	106.37	
21	35.00	0.00	108.48	099.30	35.00	0.00	105.93	100.08	80.00	0.00	111.01	106.43	104.29	106.39	
22	33.80	0.00	107.84	099.15	35.00	0.00	106.30	099.88	77.10	0.00	110.71	107.44	104.14	106.16	
23	31.40	0.00	105.39	098.94	35.00	0.00	105.83	099.84	77.00	0.00	109.56	108.59	104.03	106.16	
24	30.40	0.00	106.29	098.87	34.80	0.00	105.64	099.83	77.00	0.00	107.63	108.75	103.82	106.16	

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HOUR	DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.		
1	10.40	0.00	098.40	100.18	099.43	100.98	16.40	0.00	113.42	099.15	14.30	0.00	110.84	099.12		
2	10.40	0.00	098.37	099.89	099.24	100.55	14.40	0.00	113.15	099.31	14.50	0.00	110.81	098.81		
3	10.40	0.00	098.36	099.69	099.22	100.27	14.30	0.00	112.58	098.96	14.00	0.00	110.51	098.54		
4	10.40	0.00	098.20	099.67	099.10	099.93	14.30	0.00	112.65	098.91	15.60	0.00	110.53	098.37		
5	10.30	0.00	098.12	099.39	099.01	099.61	14.10	0.00	112.44	098.60	14.00	0.00	110.38	098.29		
6	10.40	0.00	098.10	099.31	098.95	099.34	14.50	0.00	111.89	099.40	15.40	0.00	110.25	098.53		
7	10.30	0.00	098.19	099.24	099.04	099.25	14.90	0.00	111.69	099.32	14.10	0.00	110.32	098.36		
8	10.50	0.00	098.15	099.62	099.46	099.65	26.40	0.00	111.95	099.72	14.40	0.00	110.17	098.34		
9	10.30	0.00	098.35	100.46	099.97	100.36	29.50	0.00	112.35	099.85	26.50	0.00	110.01	098.73		
10	10.40	0.00	098.54	101.65	100.57	101.18	31.40	0.00	113.06	001.48	30.60	0.00	109.93	099.06		
11	10.40	0.00	098.70	102.75	101.36	102.17	30.70	0.00	112.97	100.54	32.70	0.00	109.83	099.22		
12	10.50	0.00	099.08	103.93	102.15	103.19	31.40	0.00	113.31	100.62	34.00	0.00	109.66	099.59		
13	10.30	0.00	099.17	105.03	102.51	104.11	31.00	0.00	114.60	100.83	33.70	0.00	109.87	099.75		
14	10.30	0.00	099.24	105.46	103.00	104.84	31.00	0.00	113.75	100.81	34.00	0.00	110.36	099.97		
15	10.40	0.00	099.35	104.79	103.25	105.48	30.80	0.00	113.57	100.85	35.20	0.00	111.01	099.95		
16	10.30	0.00	099.44	105.00	103.25	105.87	30.90	0.00	112.88	100.88	33.10	0.00	111.52	100.04		
17	10.40	0.00	099.50	105.07	103.00	106.05	32.70	0.00	114.58	100.92	35.10	0.00	111.80	100.11		
18	10.30	0.00	099.14	104.54	102.75	105.95	26.80	0.00	114.34	101.08	32.80	0.00	111.96	099.73		
19	10.40	0.00	099.50	103.83	102.09	105.44	26.50	0.00	113.38	100.40	32.70	0.00	111.87	099.61		
20	10.30	0.00	098.65	103.19	101.22	104.59	26.60	0.00	112.03	100.26	32.50	0.00	111.74	099.57		
21	10.50	0.00	098.60	102.22	100.52	103.72	21.50	0.00	114.39	099.76	24.20	0.00	111.69	099.44		
22	10.30	0.00	098.53	101.66	100.30	102.91	17.30	0.00	114.24	100.03	22.30	0.00	110.93	099.49		
23	10.40	0.00	098.46	101.20	099.95	102.28	17.20	0.00	113.38	099.76	21.70	0.00	110.65	099.29		
24	10.30	0.00	098.31	100.73	099.67	101.67	14.60	0.00	112.52	099.30	14.30	0.00	110.59	099.02		
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT		
1	14.60	0.00	102.37	097.93	12.30	0.00	102.13	099.51	68.90	0.00	109.78	106.55	104.33	104.56		
2	14.40	0.00	104.61	098.17	12.10	0.00	100.63	099.36	69.00	0.00	109.35	107.32	104.17	104.63		
3	14.40	0.00	107.12	098.09	12.10	0.00	100.19	099.19	69.00	0.00	108.84	107.18	103.99	104.51		
4	15.90	0.00	108.01	097.89	12.20	0.00	101.05	099.13	69.40	0.00	109.19	107.01	103.95	104.40		
5	14.30	0.00	107.61	098.42	12.10	0.00	101.96	099.09	71.30	0.00	109.83	106.97	103.91	104.09		
6	14.50	0.00	108.06	097.80	12.30	0.00	100.33	099.45	71.20	0.00	109.62	106.61	103.72	103.80		
7	14.30	0.00	107.07	097.71	12.00	0.00	099.85	099.53	69.70	0.00	109.18	106.80	103.64	103.61		
8	14.20	0.00	108.15	098.09	13.50	0.00	100.65	099.79	93.50	0.00	108.72	106.45	103.51	103.47		
9	17.20	0.00	107.78	098.72	12.60	0.00	102.11	100.17	104.20	0.00	108.86	108.29	103.65	103.49		
10	28.30	0.00	108.03	099.55	20.60	0.00	104.53	101.04	104.50	0.00	109.12	108.61	103.95	103.32		
11	32.10	0.00	107.51	099.75	27.30	0.00	104.27	101.80	103.20	0.00	109.36	108.10	103.99	104.03		
12	32.60	0.00	106.10	099.76	32.10	0.00	106.59	102.18	104.70	0.00	109.92	107.13	104.20	104.51		
13	35.00	0.00	107.54	099.99	37.10	0.00	107.92	101.76	116.30	0.00	109.53	108.54	103.64	104.71		
14	35.50	0.00	105.45	100.07	35.80	0.00	106.39	101.91	123.60	0.00	110.22	108.21	103.80	105.17		
15	36.30	0.00	107.72	099.21	39.30	0.00	108.06	101.80	127.70	0.00	110.46	108.04	103.94	105.42		
16	36.40	0.00	105.90	100.44	39.00	0.00	107.64	101.94	128.30	0.00	111.76	110.00	104.14	105.75		
17	37.90	0.00	105.70	100.95	38.20	0.00	106.90	101.97	126.70	0.00	111.81	111.02	104.39	105.97		
18	38.00	0.00	105.89	100.32	38.30	0.00	107.20	101.50	127.70	0.00	111.63	111.87	104.55	106.17		
19	37.80	0.00	106.30	099.74	39.70	0.00	106.85	101.14	128.40	0.00	111.96	110.18	104.59	106.33		
20	37.60	0.00	106.69	099.17	37.80	0.00	107.16	100.76	130.30	0.00	111.85	108.91	104.37	106.32		
21	28.90	0.00	105.99	098.94	30.00	0.00	106.26	101.11	132.50	0.00	110.83	108.42	104.00	106.20		
22	29.80	0.00	106.76	098.83	29.80	0.00	106.07	100.35	129.00	0.00	110.76	107.77	103.81	105.97		
23	28.30	0.00	107.36	098.93	29.40	0.00	105.21	100.35	130.00	0.00	110.87	108.07	103.81	105.83		
24	22.30	0.00	106.37	098.29	25.00	0.00	104.54	100.07	127.10	0.00	109.81	107.34	103.89	105.83		

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HOURLY OPERATIONAL REPORT

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HOUR	DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
	TOTAL	SPILL	GAS	%SAT	ANATONE	PECK	LEWISTON	TOTAL	SPILL	GAS	%SAT	TOTAL	SPILL	GAS	%SAT
	DISCH.	KCFS	TAILW.	%SAT	GAS	GAS	GAS	DISCH	KCFS	FB	TAILW.	DISCH	KCFS	FB	TAILW.
1	10.80	0.00	098.06	099.46	099.74	101.31	14.10	0.00	113.55	099.53	13.30	0.00	111.10	099.16	
2	10.60	0.00	097.80	099.32	099.67	100.93	14.30	0.00	113.40	099.26	13.20	0.00	112.13	099.06	
3	10.80	0.00	097.54	099.10	099.40	100.63	14.00	0.00	112.94	099.31	13.00	0.00	112.13	099.14	
4	10.60	0.00	097.60	099.02	099.06	100.19	14.20	0.00	112.66	099.18	13.10	0.00	107.17	099.20	
5	10.80	0.00	097.71	099.17	098.98	099.88	13.80	0.00	112.89	099.57	13.80	0.00	108.72	099.67	
6	10.60	0.00	097.52	099.12	098.95	099.60	13.70	0.00	112.37	099.88	15.10	0.00	104.49	099.49	
7	10.80	0.00	097.47	099.16	099.02	099.48	14.00	0.00	112.19	099.65	14.50	0.00	109.93	099.42	
8	10.60	0.00	097.44	099.67	099.39	099.74	26.90	0.00	112.71	100.08	16.30	0.00	111.31	099.04	
9	10.80	0.00	098.01	100.61	099.88	100.24	29.10	0.00	113.42	100.23	28.00	0.00	110.65	099.51	
10	10.60	0.00	098.40	101.63	100.34	101.05	30.90	0.00	113.46	100.48	27.00	0.00	110.49	099.37	
11	10.80	0.00	098.70	101.27	100.91	101.22	31.00	0.00	113.52	100.46	32.20	0.00	110.69	099.49	
12	10.60	0.00	098.52	102.25	100.73	101.63	31.10	0.00	113.85	100.82	32.50	0.00	111.33	099.89	
13	10.80	0.00	098.64	102.89	101.46	102.48	31.10	0.00	113.97	101.43	32.70	0.00	111.36	100.21	
14	10.60	0.00	098.75	103.00	101.88	103.55	33.40	0.00	114.41	101.39	32.70	0.00	111.32	100.08	
15	10.80	0.00	098.87	103.64	102.21	104.45	31.20	0.00	115.18	101.25	34.20	0.00	111.63	100.05	
16	10.60	0.00	099.23	104.60	102.32	105.05	31.00	0.00	115.87	101.17	33.20	0.00	111.87	100.39	
17	10.60	0.00	099.32	104.64	102.38	105.41	28.60	0.00	116.10	101.08	31.00	0.00	112.05	100.17	
18	10.60	0.00	099.10	103.80	102.32	105.18	26.20	0.00	116.68	100.76	30.20	0.00	112.34	100.07	
19	10.70	0.00	099.32	103.27	101.65	104.79	26.40	0.00	115.62	100.20	30.00	0.00	112.37	099.70	
20	10.70	0.00	098.63	102.46	100.93	104.07	26.00	0.00	114.91	100.04	27.90	0.00	112.47	099.48	
21	10.70	0.00	098.59	101.89	100.26	103.20	28.10	0.00	114.83	100.39	26.70	0.00	112.25	099.44	
22	10.80	0.00	098.40	101.26	100.04	102.51	25.90	0.00	114.38	099.91	24.50	0.00	112.17	099.28	
23	10.80	0.00	098.21	100.95	099.92	101.92	25.90	0.00	114.35	099.77	22.80	0.00	111.63	099.22	
24	10.60	0.00	098.30	100.48	099.54	101.44	17.90	0.00	113.92	099.48	16.90	0.00	111.31	099.17	
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
	TOTAL	SPILL	GAS	%SAT	TOTAL	SPILL	GAS	%SAT	TOTAL	SPILL	GAS	%SAT	GAS	%SAT	
	DISCH	KCFS	FB	TAILW.	DISCH	KCFS	FB	TAILW.	DISCH	KCFS	OR	WA	FB	%SAT	
1	13.50	0.00	098.58	097.05	13.00	0.00	100.67	099.84	67.00	0.00	110.99	105.19	104.02	104.58	
2	13.50	0.00	098.90	097.43	14.40	0.00	099.59	099.56	62.20	0.00	109.76	107.79	103.84	104.43	
3	13.50	0.00	098.59	097.34	12.80	0.00	099.83	099.64	59.50	0.00	102.99	108.13	103.70	104.34	
4	13.70	0.00	100.04	097.59	12.90	0.00	100.20	099.21	65.00	0.00	102.37	109.62	103.92	104.65	
5	13.90	0.00	098.42	097.81	12.80	0.00	099.67	099.52	72.30	0.00	103.79	106.81	104.00	104.68	
6	17.20	0.00	099.21	097.86	12.90	0.00	100.94	099.53	109.40	0.00	107.76	107.02	103.87	104.36	
7	15.60	0.00	103.79	098.63	13.00	0.00	101.30	100.75	110.40	0.00	109.84	106.26	103.66	104.02	
8	20.40	0.00	105.56	098.13	13.30	0.00	103.78	099.80	115.50	0.00	109.12	109.26	103.69	103.78	
9	20.00	0.00	101.93	098.52	20.80	0.00	104.87	099.99	115.00	0.00	108.62	108.97	103.67	103.84	
10	26.30	0.00	105.29	099.24	21.00	0.00	104.47	100.51	109.40	0.00	108.31	108.78	103.78	103.88	
11	31.10	0.00	104.73	099.28	25.00	0.00	104.50	101.13	98.00	0.00	105.77	107.86	104.00	103.96	
12	32.70	0.00	105.78	099.71	33.50	0.00	105.61	101.73	97.80	0.00	106.80	106.85	104.32	103.99	
13	36.30	0.00	102.08	099.49	36.40	0.00	106.60	101.77	97.30	0.00	108.32	109.08	104.54	104.06	
14	38.10	0.00	101.57	100.19	36.80	0.00	106.00	102.07	102.70	0.00	108.74	108.12	104.90	104.29	
15	36.10	0.00	100.28	100.46	42.30	0.00	105.11	101.51	105.40	0.00	110.53	108.99	105.31	104.33	
16	38.00	0.00	100.64	100.27	37.50	0.00	106.81	101.75	107.90	0.00	110.86	109.32	105.48	104.51	
17	35.50	0.00	102.03	100.34	37.20	0.00	108.03	102.03	106.80	0.00	110.99	108.97	105.52	104.72	
18	34.60	0.00	102.60	100.01	37.20	0.00	106.79	101.78	106.80	0.00	111.35	110.16	105.55	104.90	
19	33.60	0.00	104.25	099.44	34.80	0.00	106.27	101.24	107.40	0.00	111.27	111.02	105.43	104.94	
20	27.20	0.00	100.59	098.93	30.80	0.00	104.74	101.03	107.40	0.00	108.99	110.99	105.27	104.78	
21	26.90	0.00	100.75	098.71	29.10	0.00	105.92	100.57	108.30	0.00	108.31	110.00	105.03	104.69	
22	26.70	0.00	103.50	098.63	28.60	0.00	105.30	100.95	106.90	0.00	110.50	109.51	104.97	104.68	
23	22.10	0.00	102.87	098.31	21.30	0.00	104.21	099.97	102.60	0.00	110.45	108.55	104.82	104.73	
24	18.10	0.00	100.64	098.11	18.40	0.00	102.43	099.79	77.60	0.00	109.77	107.04	104.53	104.73	

12 AUG 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

12 AUG 2001

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	
1	10.80	0.00	098.10	100.57	099.62	101.26	14.30	0.00	116.05	100.11	21.80	0.00	110.98	100.19	
2	10.60	0.00	098.21	100.26	099.46	100.78	13.90	0.00	116.12	099.96	13.00	0.00	110.99	099.88	
3	10.80	0.00	097.98	100.08	099.24	100.34	13.90	0.00	115.79	099.77	12.50	0.00	110.90	099.32	
4	10.60	0.00	098.07	099.92	099.24	099.92	16.80	0.00	115.74	099.56	15.60	0.00	110.74	099.04	
5	10.80	0.00	097.90	099.95	098.99	099.61	17.30	0.00	115.22	100.23	15.40	0.00	110.02	098.87	
6	10.50	0.00	098.05	099.74	099.02	099.29	16.80	0.00	115.16	100.35	13.90	0.00	109.75	098.71	
7	10.80	0.00	098.14	099.78	099.09	099.25	14.00	0.00	116.50	100.31	12.60	0.00	109.54	098.49	
8	10.60	0.00	098.12	100.30	099.56	099.80	14.90	0.00	115.39	100.58	12.60	0.00	109.41	098.37	
9	10.70	0.00	098.27	101.03	100.08	100.46	25.20	0.00	114.75	100.86	13.10	0.00	108.87	098.78	
10	10.60	0.00	098.62	102.05	100.79	101.36	27.20	0.00	114.92	101.02	21.50	0.00	109.83	098.92	
11	10.80	0.00	098.85	103.07	101.51	102.36	27.00	0.00	115.79	101.29	25.50	0.00	110.81	099.37	
12	10.50	0.00	099.09	104.03	102.29	103.44	29.40	0.00	115.82	101.54	28.20	0.00	111.14	099.69	
13	10.80	0.00	099.33	104.91	102.69	104.49	29.70	0.00	116.03	101.74	31.10	0.00	111.23	099.76	
14	10.50	0.00	099.40	105.57	103.29	105.28	29.70	0.00	115.98	101.78	31.10	0.00	111.71	100.00	
15	10.80	0.00	099.52	106.26	103.38	105.98	29.80	0.00	116.22	101.89	35.70	0.00	112.80	100.16	
16	10.60	0.00	099.33	105.77	103.60	106.23	30.30	0.00	116.42	101.85	35.10	0.00	113.63	100.67	
17	10.80	0.00	099.22	104.57	103.18	106.28	30.60	0.00	117.26	101.73	33.70	0.00	114.05	100.58	
18	10.60	0.00	098.98	103.09	102.41	105.71	30.90	0.00	116.53	101.47	34.20	0.00	113.37	100.46	
19	10.70	0.00	099.22	102.51	101.73	104.79	30.70	0.00	116.21	101.16	34.40	0.00	113.52	100.42	
20	10.60	0.00	098.60	101.85	101.12	104.13	27.00	0.00	116.27	100.73	34.90	0.00	113.39	100.27	
21	10.80	0.00	098.41	101.09	100.72	103.34	33.30	0.00	116.14	100.88	34.40	0.00	113.58	100.09	
22	10.60	0.00	098.49	100.64	100.38	102.69	30.60	0.00	115.45	099.27	34.00	0.00	113.49	099.92	
23	10.80	0.00	098.21	100.03	099.92	102.13	17.40	0.00	115.10	099.97	32.90	0.00	112.98	099.92	
24	10.60	0.00	098.08	099.51	100.08	101.67	14.20	0.00	114.22	099.95	14.80	0.00	106.66	099.37	
LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT	
1	30.80	0.00	105.01	097.72	30.70	0.00	102.96	099.93	80.60	0.00	105.99	107.94	103.56	104.34	
2	18.30	0.00	101.09	097.54	24.80	0.00	102.50	099.79	79.80	0.00	106.35	108.81	103.65	104.08	
3	13.70	0.00	102.97	097.61	13.30	0.00	101.90	099.37	68.60	0.00	107.28	105.61	103.49	104.13	
4	13.70	0.00	104.13	097.29	9.50	0.00	101.23	099.05	68.60	0.00	106.82	105.99	103.47	103.97	
5	13.80	0.00	104.42	097.25	9.40	0.00	106.43	098.91	56.30	0.00	107.24	105.26	103.43	103.89	
6	13.90	0.00	103.94	097.21	10.90	0.00	105.50	098.75	54.80	0.00	105.75	105.13	103.33	103.76	
7	13.90	0.00	105.24	097.30	9.40	0.00	105.29	098.59	57.20	0.00	105.54	104.79	103.21	103.71	
8	13.60	0.00	105.75	097.53	9.40	0.00	105.92	098.89	72.90	0.00	104.98	105.02	103.29	103.65	
9	13.60	0.00	106.82	098.09	11.00	0.00	104.66	099.39	86.70	0.00	105.77	104.63	103.54	103.62	
10	13.60	0.00	107.48	098.64	10.70	0.00	104.67	100.16	104.40	0.00	106.68	105.46	103.59	103.78	
11	14.10	0.00	110.62	098.94	9.30	0.00	105.07	100.65	105.80	0.00	105.75	105.47	103.75	103.88	
12	22.80	0.00	109.49	099.45	13.00	0.00	104.43	102.08	106.30	0.00	105.81	106.37	103.96	104.22	
13	25.60	0.00	109.71	099.71	22.10	0.00	105.66	102.82	108.10	0.00	106.69	106.04	104.17	104.57	
14	30.60	0.00	110.81	100.07	31.20	0.00	106.37	102.90	109.10	0.00	104.11	105.68	104.37	104.77	
15	35.30	0.00	110.78	100.09	37.10	0.00	107.64	102.46	110.00	0.00	104.86	106.11	104.43	104.88	
16	35.40	0.00	111.31	100.05	36.10	0.00	108.68	101.83	112.20	0.00	107.02	107.43	104.69	105.03	
17	39.90	0.00	111.59	099.84	42.00	0.00	106.84	101.89	112.60	0.00	108.78	107.31	104.74	104.95	
18	38.60	0.00	110.92	099.57	42.40	0.00	108.40	101.59	112.50	0.00	110.19	107.06	104.74	105.12	
19	39.80	0.00	109.84	099.19	42.80	0.00	108.30	101.30	102.90	0.00	110.59	107.63	104.69	105.13	
20	40.60	0.00	102.03	098.90	41.70	0.00	109.09	100.88	104.10	0.00	106.50	106.46	104.73	105.31	
21	35.00	0.00	099.43	098.52	34.80	0.00	109.13	100.76	91.10	0.00	106.93	105.52	104.73	105.04	
22	34.60	0.00	098.96	098.24	34.30	0.00	108.27	100.56	85.50	0.00	109.51	105.58	104.27	104.79	
23	34.30	0.00	098.12	098.00	33.70	0.00	108.61	100.32	82.80	0.00	109.47	104.10	104.28	104.34	
24	14.40	0.00	097.92	097.34	18.30	0.00	102.42	099.97	66.50	0.00	110.73	104.06	104.22	104.34	

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WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

11 AUG 2001

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	
1	10.70	0.00	098.36	100.64	099.60	101.07	14.20	0.00	114.74	099.78	14.90	0.00	113.86	099.36	
2	10.60	0.00	098.33	100.62	099.44	100.63	14.10	0.00	114.56	099.72	12.90	0.00	113.36	099.13	
3	10.70	0.00	098.29	100.58	099.43	100.22	14.40	0.00	114.80	099.56	13.70	0.00	113.10	099.08	
4	10.60	0.00	098.22	100.54	099.21	099.84	14.20	0.00	114.57	099.34	13.50	0.00	112.51	099.06	
5	10.70	0.00	098.18	100.35	099.18	099.52	13.70	0.00	114.12	100.09	12.40	0.00	112.35	098.92	
6	10.50	0.00	098.13	100.16	099.14	099.21	13.70	0.00	113.80	100.19	17.10	0.00	112.84	098.98	
7	10.70	0.00	098.09	100.08	099.18	099.02	14.00	0.00	113.79	100.04	14.20	0.00	110.25	098.84	
8	10.60	0.00	098.23	100.35	099.65	099.53	26.80	0.00	114.28	100.42	18.40	0.00	111.45	099.10	
9	10.70	0.00	098.39	101.06	100.22	100.26	33.40	0.00	114.34	101.14	22.40	0.00	111.60	099.38	
10	10.60	0.00	098.56	101.79	100.67	101.12	37.50	0.00	114.09	101.56	35.50	0.00	112.02	100.20	
11	10.70	0.00	098.78	102.70	101.25	102.09	35.90	0.00	114.24	102.14	38.30	0.00	112.93	100.68	
12	10.50	0.00	099.00	103.63	101.95	103.16	36.00	0.00	115.02	102.35	38.30	0.00	112.77	101.03	
13	10.80	0.00	099.08	104.39	102.41	104.16	36.60	0.00	115.65	102.44	41.30	0.00	113.98	101.62	
14	10.60	0.00	099.29	105.18	102.86	104.96	36.00	0.00	115.99	102.51	41.20	0.00	114.09	101.93	
15	10.80	0.00	099.35	105.66	103.07	105.66	37.60	0.00	116.35	102.56	40.60	0.00	114.15	102.15	
16	10.60	0.00	099.14	105.89	103.20	106.05	35.90	0.00	116.19	102.55	40.50	0.00	114.34	102.08	
17	10.80	0.00	099.07	105.87	103.10	106.25	36.00	0.00	116.78	102.48	40.60	0.00	114.63	102.04	
18	10.60	0.00	098.85	105.05	102.81	106.00	36.70	0.00	116.99	102.38	41.20	0.00	114.63	101.92	
19	10.70	0.00	099.07	104.19	102.08	105.59	35.90	0.00	116.86	102.35	40.40	0.00	114.74	101.79	
20	10.50	0.00	098.38	103.42	101.31	104.61	38.10	0.00	116.78	102.16	40.50	0.00	113.76	101.60	
21	10.70	0.00	098.28	102.57	100.64	103.72	36.50	0.00	116.43	101.56	40.50	0.00	113.45	101.44	
22	10.60	0.00	098.22	101.96	100.26	102.87	36.30	0.00	116.67	101.12	40.40	0.00	112.98	101.36	
23	10.80	0.00	098.16	101.48	100.01	102.28	36.50	0.00	116.34	100.93	40.70	0.00	112.40	101.18	
24	10.60	0.00	098.10	101.09	099.75	101.73	26.00	0.00	115.91	100.53	27.70	0.00	111.69	100.90	
LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT	
1	14.10	0.00	103.88	097.78	12.80	0.00	101.66	099.72	98.90	0.00	109.62	108.67	103.89	104.74	
2	13.70	0.00	100.27	097.49	12.80	0.00	100.96	099.57	97.20	0.00	109.90	105.29	103.84	104.76	
3	14.00	0.00	105.86	097.41	12.70	0.00	100.08	099.39	109.90	0.00	107.33	105.52	103.59	104.56	
4	14.20	0.00	109.04	097.24	12.70	0.00	099.79	099.33	124.50	0.00	106.22	104.66	103.52	104.14	
5	13.60	0.00	108.97	097.08	12.70	0.00	100.32	099.48	100.10	0.00	106.46	104.26	103.36	103.79	
6	17.80	0.00	106.54	096.97	13.10	0.00	101.48	099.56	105.70	0.00	107.35	104.49	103.20	103.42	
7	14.70	0.00	109.35	097.09	12.70	0.00	101.17	099.59	116.80	0.00	107.67	107.31	102.98	103.19	
8	14.70	0.00	108.51	097.23	12.70	0.00	100.23	099.75	103.50	0.00	104.90	107.03	103.07	103.04	
9	17.80	0.00	107.84	097.69	13.40	0.00	101.44	100.00	105.80	0.00	104.50	107.48	103.25	103.10	
10	23.70	0.00	107.61	098.17	22.10	0.00	103.99	100.88	110.00	0.00	107.13	107.62	103.39	103.23	
11	34.70	0.00	108.47	098.77	26.90	0.00	103.90	101.19	106.80	0.00	108.16	106.62	103.58	103.39	
12	38.70	0.00	106.51	099.29	33.00	0.00	106.05	101.89	105.40	0.00	107.92	106.85	103.78	103.58	
13	40.10	0.00	108.00	099.10	39.80	0.00	106.55	101.75	104.60	0.00	107.29	105.57	103.84	103.93	
14	40.50	0.00	102.95	099.45	43.10	0.00	105.81	101.74	105.00	0.00	107.56	107.23	103.92	104.24	
15	41.10	0.00	103.47	099.41	42.40	0.00	104.94	101.74	101.10	0.00	104.89	107.83	104.14	104.69	
16	43.10	0.00	105.84	099.31	44.90	0.00	105.01	101.91	100.60	0.00	105.16	107.53	104.21	105.07	
17	41.40	0.00	102.91	099.19	42.30	0.00	106.53	101.73	102.00	0.00	106.10	107.99	104.27	105.14	
18	41.40	0.00	104.86	098.68	42.20	0.00	107.66	101.95	105.70	0.00	103.70	107.09	104.34	105.26	
19	42.80	0.00	103.65	098.44	42.30	0.00	107.94	101.22	115.70	0.00	104.36	108.04	104.21	105.29	
20	43.00	0.00	102.56	097.97	43.90	0.00	106.42	100.48	116.30	0.00	104.41	108.57	104.02	105.28	
21	43.20	0.00	102.08	097.84	42.40	0.00	106.81	100.98	114.20	0.00	103.94	108.25	104.01	105.10	
22	43.10	0.00	104.73	097.77	43.20	0.00	107.05	100.25	97.60	0.00	103.45	108.22	103.83	104.95	
23	44.00	0.00	105.50	097.96	42.30	0.00	108.33	100.12	95.10	0.00	104.45	106.29	103.78	104.76	
24	43.50	0.00	106.26	097.90	42.10	0.00	107.78	100.11	83.30	0.00	104.79	107.54	103.60	104.76	

10 AUG 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

10 AUG 2001

DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.
1	10.50	0.00	098.04	100.58	099.62	101.40	14.10	0.00	113.16	099.46	15.40	0.00	115.01	099.13
2	10.80	0.00	098.02	100.48	099.44	101.11	13.80	0.00	112.49	099.38	12.80	0.00	114.60	098.70
3	10.60	0.00	098.09	100.23	099.22	100.65	13.90	0.00	112.98	099.10	12.50	0.00	113.75	098.67
4	10.80	0.00	098.07	100.04	099.18	100.20	13.80	0.00	112.65	098.80	12.50	0.00	113.32	098.66
5	10.60	0.00	098.16	100.00	099.17	099.77	13.40	0.00	112.89	099.29	12.50	0.00	112.97	098.47
6	10.70	0.00	097.98	099.84	099.05	099.34	13.50	0.00	114.04	099.50	12.50	0.00	112.56	098.03
7	10.50	0.00	098.05	099.91	099.14	099.13	13.90	0.00	113.47	099.48	12.70	0.00	112.21	097.74
8	10.70	0.00	098.20	100.27	099.59	099.50	26.20	0.00	113.47	100.27	13.30	0.00	112.44	097.85
9	10.60	0.00	098.33	100.93	099.96	100.31	32.20	0.00	114.01	100.81	30.80	0.00	113.27	098.50
10	10.70	0.00	098.51	101.68	100.60	101.16	33.80	0.00	114.16	101.67	31.70	0.00	112.48	099.17
11	10.70	0.00	098.70	102.74	101.16	102.17	38.20	0.00	114.33	102.34	37.00	0.00	112.56	099.96
12	10.40	0.00	098.94	103.66	101.81	103.21	38.10	0.00	114.69	102.42	38.00	0.00	114.27	100.51
13	10.60	0.00	099.14	104.58	102.36	104.23	37.70	0.00	115.31	102.60	37.20	0.00	114.83	101.11
14	10.60	0.00	099.21	105.48	102.86	105.11	37.60	0.00	115.35	102.99	37.20	0.00	115.28	101.42
15	10.70	0.00	099.31	105.97	103.03	105.68	30.80	0.00	115.69	102.76	40.30	0.00	115.08	101.74
16	10.50	0.00	099.22	106.15	103.13	106.17	30.60	0.00	115.61	102.55	37.60	0.00	115.53	101.68
17	10.70	0.00	099.03	106.13	103.06	106.27	31.60	0.00	116.52	102.33	37.80	0.00	115.26	101.65
18	10.50	0.00	098.94	105.18	102.69	106.05	26.30	0.00	116.58	102.39	25.10	0.00	114.78	101.42
19	10.80	0.00	099.03	104.58	102.12	105.68	25.90	0.00	117.17	101.74	24.60	0.00	114.67	100.81
20	10.60	0.00	098.53	103.57	101.27	104.69	25.90	0.00	116.90	101.16	24.70	0.00	114.45	100.11
21	10.60	0.00	098.30	102.63	100.66	103.72	24.50	0.00	116.29	100.84	24.50	0.00	114.48	099.65
22	10.50	0.00	098.20	102.03	100.30	102.97	19.20	0.00	115.64	100.23	18.70	0.00	114.15	099.32
23	10.70	0.00	098.30	101.40	099.96	102.20	17.50	0.00	115.34	100.48	17.10	0.00	113.94	099.28
24	10.50	0.00	098.25	100.96	099.81	101.63	17.30	0.00	115.16	100.03	17.00	0.00	114.10	099.36
LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT		
1	18.50	0.00	105.57	099.09	18.80	0.00	103.02	100.61	80.10	0.00	109.31	110.05	103.25	104.02
2	14.00	0.00	103.82	098.52	10.70	0.00	101.83	100.32	72.70	0.00	109.03	108.03	103.16	103.73
3	13.70	0.00	102.57	098.32	10.20	0.00	102.34	099.87	69.40	0.00	108.22	107.87	102.84	103.46
4	13.40	0.00	102.00	098.23	11.80	0.00	100.19	099.59	70.80	0.00	108.17	107.49	102.83	103.25
5	13.70	0.00	102.40	098.07	10.20	0.00	104.55	099.44	72.50	0.00	108.04	107.41	102.79	103.11
6	15.00	0.00	105.04	097.99	10.20	0.00	103.31	099.27	71.40	0.00	107.47	106.54	102.72	102.79
7	13.50	0.00	106.43	099.00	10.20	0.00	103.91	099.23	73.20	0.00	107.11	106.65	102.64	102.59
8	13.60	0.00	106.83	098.59	12.90	0.00	104.34	100.12	73.80	0.00	106.72	106.62	102.65	102.42
9	14.30	0.00	106.56	098.92	13.30	0.00	104.27	100.73	73.40	0.00	106.53	106.83	103.03	102.27
10	29.30	0.00	106.55	099.36	24.30	0.00	105.85	101.60	94.20	0.00	106.81	106.46	103.28	102.42
11	38.40	0.00	105.69	100.31	34.00	0.00	105.11	101.64	97.10	0.00	108.13	106.68	103.60	102.56
12	39.10	0.00	106.26	100.94	41.00	0.00	104.93	101.65	102.50	0.00	108.79	107.00	103.94	102.88
13	38.90	0.00	107.54	101.47	40.30	0.00	105.10	101.87	103.00	0.00	109.19	106.13	104.17	103.25
14	38.70	0.00	108.79	101.82	39.60	0.00	106.47	102.20	105.00	0.00	109.59	106.18	104.21	103.45
15	38.40	0.00	109.13	101.54	41.10	0.00	105.47	102.68	87.90	0.00	109.68	106.25	104.35	103.76
16	40.30	0.00	109.36	101.34	39.60	0.00	108.11	102.77	94.90	0.00	109.78	106.11	104.55	104.15
17	38.30	0.00	109.41	101.17	39.20	0.00	107.39	102.42	116.20	0.00	111.32	105.89	104.62	104.59
18	31.30	0.00	107.81	100.94	30.10	0.00	107.02	102.02	121.10	0.00	108.41	105.83	104.66	104.94
19	29.20	0.00	104.22	100.17	29.30	0.00	105.23	101.82	116.00	0.00	110.15	105.88	104.58	105.38
20	28.20	0.00	103.86	099.17	26.50	0.00	102.68	101.55	112.60	0.00	110.34	105.99	104.58	105.40
21	26.40	0.00	103.51	098.78	26.50	0.00	104.52	101.03	105.90	0.00	109.76	106.78	104.22	105.22
22	26.50	0.00	103.87	098.40	24.90	0.00	102.42	101.26	92.70	0.00	108.70	105.43	104.02	105.02
23	18.40	0.00	103.72	098.04	24.90	0.00	101.59	101.26	90.60	0.00	108.39	104.86	103.96	104.81
24	17.60	0.00	104.75	098.02	17.90	0.00	100.90	100.17	89.00	0.00	108.06	105.08	103.92	104.81

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WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

09 AUG 2001

HOUR	DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
	TOTAL DISCH. KCFS	SPILL KCFS	GAS TAILW.	%SAT	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT	
1	10.50	0.00	098.39	099.97	099.62	101.21	15.20	0.00	104.72	098.80	16.90	0.00	103.85	098.74		
2	10.70	0.00	098.48	099.95	099.65	100.63	15.00	0.00	103.75	098.70	15.30	0.00	103.86	098.62		
3	10.50	0.00	098.48	099.96	099.51	100.23	15.20	0.00	103.72	098.66	15.30	0.00	104.24	098.46		
4	10.40	0.00	098.58	099.88	099.40	099.92	15.60	0.00	103.70	098.59	15.30	0.00	104.88	098.18		
5	10.70	0.00	098.56	099.70	099.46	099.48	14.80	0.00	104.38	098.83	15.60	0.00	105.39	097.97		
6	10.30	0.00	098.51	099.51	099.33	099.29	16.20	0.00	106.34	099.34	15.30	0.00	105.45	097.80		
7	10.40	0.00	098.63	098.96	099.62	099.14	26.50	0.00	107.37	099.40	15.40	0.00	104.90	097.90		
8	10.40	0.00	098.62	099.86	100.11	099.64	33.00	0.00	107.78	099.80	21.90	0.00	104.85	098.00		
9	10.50	0.00	098.96	101.00	100.75	100.34	37.10	0.00	109.39	100.36	31.80	0.00	105.93	098.58		
10	10.50	0.00	099.16	102.43	101.29	101.33	37.10	0.00	107.04	100.54	41.90	0.00	106.55	099.45		
11	8.00	0.00	100.96	104.14	102.74	102.19	37.10	0.00	109.52	100.86	40.10	0.00	107.25	100.16		
12	5.10	0.00	103.60	105.59	103.79	102.92	37.30	0.00	112.85	098.90	39.60	0.00	107.06	100.45		
13	6.50	0.00	100.80	106.57	104.42	103.98	37.30	0.00	113.55	101.55	39.60	0.00	108.20	100.51		
14	9.30	0.00	105.76	107.26	000.00	104.99	37.80	0.00	115.23	101.74	39.60	0.00	106.92	100.74		
15	10.50	0.00	099.99	106.73	106.12	105.70	39.00	0.00	115.54	102.15	40.30	0.00	108.59	101.19		
16	10.70	0.00	099.35	103.58	104.74	106.04	37.40	0.00	117.07	102.12	39.70	0.00	109.99	101.23		
17	10.50	0.00	099.14	105.94	103.36	106.24	37.30	0.00	116.76	102.06	39.60	0.00	110.27	101.45		
18	10.60	0.00	098.76	105.16	102.82	106.17	38.80	0.00	115.06	102.21	39.70	0.00	110.99	101.50		
19	10.50	0.00	099.14	104.50	102.16	105.76	34.00	0.00	115.65	101.55	41.10	0.00	114.10	101.54		
20	10.70	0.00	098.37	103.62	101.30	104.92	26.90	0.00	116.43	101.15	40.90	0.00	115.42	101.67		
21	10.50	0.00	098.26	102.82	100.61	103.92	26.20	0.00	116.02	100.50	31.10	0.00	114.39	101.46		
22	10.70	0.00	098.16	102.07	100.31	103.04	19.30	0.00	116.00	100.05	24.80	0.00	115.03	100.71		
23	10.50	0.00	098.14	101.63	099.95	102.44	17.30	0.00	115.70	099.76	21.10	0.00	114.17	100.00		
24	10.70	0.00	098.11	101.05	099.75	101.88	15.80	0.00	113.04	100.39	14.60	0.00	114.64	099.56		
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT	GAS % SAT		
1	21.50	0.00	110.41	098.95	28.70	0.00	106.26	100.17	92.00	0.00	105.71	106.96	103.27	103.46		
2	15.50	0.00	110.11	098.64	18.40	0.00	103.56	100.01	108.00	0.00	106.52	107.24	103.13	103.44		
3	16.70	0.00	109.18	098.32	14.30	0.00	102.48	099.61	105.80	0.00	106.46	104.80	102.72	103.26		
4	15.00	0.00	107.14	099.07	9.90	0.00	101.76	099.44	127.00	0.00	106.73	106.38	102.65	102.98		
5	14.80	0.00	106.57	098.08	19.30	0.00	101.59	099.27	129.90	0.00	108.29	107.27	103.03	102.80		
6	14.90	0.00	108.52	097.78	18.20	0.00	101.87	099.10	130.60	0.00	108.53	106.98	103.12	102.52		
7	14.90	0.00	107.20	098.00	18.20	0.00	102.20	100.31	125.10	0.00	107.99	107.51	103.39	102.34		
8	15.00	0.00	107.56	098.28	18.20	0.00	101.55	100.11	132.70	0.00	106.90	107.98	103.45	102.18		
9	21.10	0.00	107.69	098.95	22.50	0.00	101.69	100.35	127.30	0.00	106.74	108.12	103.74	102.19		
10	34.20	0.00	108.14	099.67	27.00	0.00	103.29	100.27	127.10	0.00	107.13	108.25	103.49	102.36		
11	39.80	0.00	109.22	100.56	31.50	0.00	105.50	101.17	127.70	0.00	108.21	108.81	103.65	102.64		
12	41.30	0.00	109.53	101.08	38.30	0.00	104.68	101.86	122.50	0.00	108.71	108.51	104.15	102.96		
13	41.20	0.00	108.83	101.65	38.70	0.00	105.00	101.65	123.70	0.00	108.38	109.25	104.22	103.19		
14	43.00	0.00	108.86	100.90	40.10	0.00	107.36	102.20	118.50	0.00	108.29	107.20	104.33	103.54		
15	41.40	0.00	109.47	101.03	40.80	0.00	106.76	102.08	117.00	0.00	109.19	106.62	104.14	103.86		
16	42.70	0.00	109.16	100.98	43.10	0.00	104.45	102.27	118.10	0.00	109.40	109.11	104.58	104.05		
17	43.60	0.00	109.39	101.10	42.20	0.00	104.39	101.70	120.30	0.00	109.47	107.46	104.93	104.51		
18	41.90	0.00	109.14	100.60	42.10	0.00	103.75	101.55	113.50	0.00	109.75	106.68	104.83	104.83		
19	42.50	0.00	109.18	100.23	42.20	0.00	104.43	101.44	110.50	0.00	109.50	105.99	104.43	105.05		
20	42.70	0.00	108.86	099.88	43.80	0.00	104.70	101.42	113.00	0.00	109.51	105.06	103.90	105.28		
21	42.50	0.00	109.92	099.77	43.00	0.00	106.25	101.60	113.60	0.00	109.20	105.40	103.58	105.19		
22	36.90	0.00	109.14	099.41	42.00	0.00	105.45	*****	95.90	0.00	109.93	110.16	103.40	104.76		
23	28.20	0.00	107.80	099.60	37.00	0.00	105.05	100.77	91.60	0.00	107.62	110.09	103.35	104.46		
24	19.20	0.00	105.73	099.41	29.00	0.00	106.54	100.73	82.10	0.00	107.99	109.69	103.31	104.46		

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WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

08 AUG 2001

HOUR	DWRSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
	TOTAL DISCH. KCFS	SPILL KCFS	GAS TAILW.	%SAT	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	
1	10.60	0.00	098.29	099.86	099.90	101.49	17.30	0.00	104.31	099.22	25.20	0.00	098.49	097.26		
2	10.70	0.00	098.41	099.84	099.66	100.93	15.10	0.00	103.70	099.01	22.00	0.00	098.46	097.50		
3	10.30	0.00	098.37	099.82	099.43	100.51	16.30	0.00	104.55	098.78	14.10	0.00	098.34	097.10		
4	10.30	0.00	098.36	099.89	099.51	100.07	16.40	0.00	104.24	098.73	14.30	0.00	098.13	097.06		
5	10.50	0.00	098.42	099.68	099.24	099.73	17.00	0.00	104.44	100.36	14.10	0.00	098.21	096.97		
6	10.50	0.00	098.20	099.62	099.15	099.42	19.30	0.00	104.23	099.65	14.10	0.00	097.89	096.93		
7	10.70	0.00	098.31	099.57	099.44	099.19	26.90	0.00	103.05	099.57	14.40	0.00	097.69	096.60		
8	10.60	0.00	098.43	100.15	099.96	099.56	32.00	0.00	103.45	099.56	25.20	0.00	097.61	097.36		
9	10.40	0.00	098.74	101.07	100.52	100.36	33.00	0.00	104.66	100.24	26.10	0.00	098.05	097.69		
10	10.30	0.00	098.92	102.50	101.10	101.21	36.40	0.00	105.50	100.52	34.20	0.00	098.08	097.81		
11	10.50	0.00	099.15	103.52	102.72	102.22	32.60	0.00	102.73	100.44	36.20	0.00	098.94	098.12		
12	10.40	0.00	099.38	105.12	103.45	103.30	31.70	0.00	106.14	100.55	32.30	0.00	099.57	098.33		
13	10.50	0.00	099.44	106.08	102.98	104.32	31.60	0.00	106.49	100.62	32.50	0.00	000.00	099.00		
14	10.40	0.00	099.51	106.51	104.20	105.23	31.90	0.00	107.25	100.55	33.20	0.00	100.01	099.06		
15	10.40	0.00	099.73	106.51	104.22	105.81	31.90	0.00	108.31	000.00	34.00	0.00	100.54	099.14		
16	10.60	0.00	099.61	106.18	104.43	106.12	33.60	0.00	105.39	101.08	32.50	0.00	101.22	099.17		
17	10.50	0.00	099.54	105.56	104.41	106.33	32.50	0.00	105.46	100.48	32.40	0.00	100.60	099.26		
18	10.70	0.00	099.35	103.95	103.78	106.12	31.80	0.00	106.61	100.42	32.40	0.00	100.69	099.17		
19	10.60	0.00	099.54	103.20	102.70	105.58	32.10	0.00	108.17	100.32	33.00	0.00	100.85	099.18		
20	10.70	0.00	098.78	102.37	101.68	104.78	33.90	0.00	108.67	100.18	34.30	0.00	102.16	099.05		
21	10.50	0.00	098.68	101.48	101.06	103.78	32.10	0.00	109.28	100.11	34.70	0.00	103.05	098.97		
22	10.50	0.00	098.51	100.86	100.60	102.91	27.00	0.00	107.87	099.70	34.60	0.00	104.22	098.96		
23	10.40	0.00	098.48	100.46	100.26	102.36	17.50	0.00	106.26	099.11	34.30	0.00	104.63	098.93		
24	10.60	0.00	098.40	100.09	099.92	101.64	16.80	0.00	105.57	098.98	26.70	0.00	103.89	098.92		
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT		
1	33.70	0.00	098.67	098.16	35.10	0.00	102.64	099.61	112.30	0.00	104.76	107.36	102.58	104.24		
2	15.60	0.00	098.49	097.71	22.30	0.00	101.25	100.12	107.80	0.00	105.14	107.60	102.58	104.06		
3	14.60	0.00	098.03	097.48	12.80	0.00	101.21	099.18	119.10	0.00	102.95	109.36	102.54	103.80		
4	14.50	0.00	097.97	097.82	10.10	0.00	100.52	098.67	134.60	0.00	104.41	107.63	102.47	103.41		
5	16.10	0.00	098.20	097.50	10.00	0.00	099.35	099.43	148.10	0.00	106.73	105.82	102.40	103.10		
6	14.60	0.00	097.73	098.07	10.20	0.00	099.71	098.74	152.40	0.00	108.48	105.50	102.19	102.91		
7	14.50	0.00	097.67	097.49	12.60	0.00	099.28	098.55	149.70	0.00	108.53	104.62	101.99	102.57		
8	15.20	0.00	097.79	097.84	12.60	0.00	098.95	099.81	134.70	0.00	108.22	104.04	101.94	102.35		
9	27.90	0.00	098.15	098.26	15.30	0.00	101.73	099.63	125.70	0.00	107.29	104.32	102.36	102.55		
10	27.20	0.00	098.32	098.90	22.90	0.00	102.96	100.55	118.90	0.00	106.24	105.56	102.80	102.87		
11	32.90	0.00	099.36	099.32	29.70	0.00	104.23	101.85	120.30	0.00	107.53	106.12	103.09	103.17		
12	33.20	0.00	100.35	099.80	31.50	0.00	103.86	102.70	120.40	0.00	106.27	107.81	103.33	103.48		
13	33.20	0.00	099.55	099.96	31.70	0.00	104.22	101.46	116.40	0.00	106.50	107.53	103.43	103.75		
14	33.80	0.00	099.87	100.23	31.70	0.00	103.17	101.60	103.20	0.00	107.01	108.94	103.77	103.96		
15	33.20	0.00	100.87	100.33	33.20	0.00	103.68	101.36	103.70	0.00	106.11	111.16	104.00	104.03		
16	34.80	0.00	104.29	102.29	31.60	0.00	102.92	101.13	103.60	0.00	106.21	110.03	104.22	104.24		
17	33.20	0.00	104.32	100.82	32.10	0.00	103.89	101.44	103.90	0.00	109.43	109.04	103.98	104.12		
18	33.50	0.00	105.69	100.71	31.40	0.00	103.81	100.79	112.30	0.00	109.63	107.40	103.81	104.16		
19	33.90	0.00	107.85	100.20	33.20	0.00	103.84	100.53	114.90	0.00	110.90	105.69	103.31	104.23		
20	37.80	0.00	110.01	099.75	40.50	0.00	103.55	100.29	136.10	0.00	111.29	105.13	103.04	104.10		
21	38.70	0.00	109.96	099.55	39.70	0.00	105.14	100.51	138.70	0.00	110.68	105.63	103.13	103.90		
22	37.60	0.00	108.01	099.33	39.50	0.00	107.22	100.60	118.00	0.00	110.02	105.33	103.11	103.91		
23	37.70	0.00	110.62	099.36	39.80	0.00	107.12	100.21	101.80	0.00	106.99	105.56	103.34	103.75		
24	36.00	0.00	110.46	099.29	30.00	0.00	106.11	100.19	96.20	0.00	106.56	107.41	103.30	103.75		

07 AUG 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

07 AUG 2001

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	
1	10.70	0.00	098.33	100.07	099.80	101.40	15.90	0.00	105.15	099.77	15.80	0.00	111.90	098.38	
2	10.50	0.00	098.29	100.03	099.66	100.97	15.80	0.00	106.71	099.62	16.80	0.00	112.81	097.95	
3	10.50	0.00	098.24	099.96	099.43	100.50	15.90	0.00	105.19	099.40	15.50	0.00	113.53	097.32	
4	10.50	0.00	098.17	099.93	099.25	100.08	15.60	0.00	105.64	099.38	15.40	0.00	111.20	097.14	
5	10.50	0.00	098.27	099.72	099.16	099.73	17.80	0.00	105.04	099.29	15.50	0.00	107.36	097.06	
6	10.70	0.00	098.19	099.64	099.17	099.54	15.30	0.00	107.15	099.73	15.40	0.00	105.06	096.92	
7	10.50	0.00	098.14	099.58	099.35	099.33	15.00	0.00	105.33	099.87	16.90	0.00	103.95	097.03	
8	10.60	0.00	098.29	100.12	099.92	099.87	16.70	0.00	106.12	099.97	16.00	0.00	102.51	096.89	
9	10.50	0.00	098.49	101.16	100.35	100.54	26.20	0.00	106.93	100.12	22.70	0.00	101.58	096.98	
10	10.50	0.00	098.73	102.40	101.03	101.52	28.10	0.00	105.64	100.44	25.80	0.00	101.08	097.70	
11	10.60	0.00	098.92	103.53	102.54	102.42	26.40	0.00	105.48	100.48	25.30	0.00	100.16	097.75	
12	10.40	0.00	099.15	104.56	103.38	103.41	26.70	0.00	104.99	100.56	25.50	0.00	098.38	097.40	
13	10.60	0.00	099.34	105.46	102.98	104.46	33.20	0.00	104.39	100.62	33.30	0.00	096.90	097.24	
14	10.50	0.00	099.57	106.11	104.07	105.38	34.20	0.00	104.21	100.58	34.60	0.00	097.90	097.18	
15	10.60	0.00	099.66	106.20	104.21	106.01	37.20	0.00	104.97	100.66	36.60	0.00	099.04	097.29	
16	10.60	0.00	099.71	105.86	104.69	106.47	36.20	0.00	105.44	100.74	39.10	0.00	099.53	097.49	
17	10.60	0.00	099.61	105.28	104.47	106.51	37.90	0.00	106.98	100.63	39.40	0.00	099.84	097.65	
18	10.40	0.00	099.42	103.82	103.94	106.41	36.20	0.00	107.32	100.74	41.70	0.00	099.73	097.97	
19	10.60	0.00	099.61	103.05	102.97	105.87	38.60	0.00	106.24	100.31	39.40	0.00	099.36	097.85	
20	10.60	0.00	098.67	102.09	101.81	105.07	36.20	0.00	104.88	100.03	37.90	0.00	098.68	097.68	
21	10.70	0.00	098.57	101.47	101.10	104.06	36.10	0.00	105.24	099.85	39.00	0.00	098.07	097.66	
22	10.50	0.00	098.43	100.90	100.63	103.34	36.30	0.00	105.08	099.83	37.40	0.00	098.47	097.50	
23	10.60	0.00	098.51	100.47	100.35	102.64	35.50	0.00	106.95	099.68	37.90	0.00	098.57	097.49	
24	10.50	0.00	098.45	100.18	100.00	101.93	27.50	0.00	106.35	099.49	35.40	0.00	097.99	097.46	
LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT	
1	15.30	0.00	101.04	097.88	12.80	0.00	099.28	099.03	88.90	0.00	102.71	102.51	102.14	104.35	
2	14.80	0.00	100.32	098.00	14.60	0.00	098.55	098.74	73.40	0.00	101.85	101.41	101.69	104.28	
3	14.70	0.00	099.95	097.73	12.90	0.00	097.69	098.53	70.00	0.00	099.84	102.04	101.53	104.06	
4	14.80	0.00	098.84	097.49	12.70	0.00	097.36	098.37	69.50	0.00	099.38	102.21	101.32	103.95	
5	15.10	0.00	098.31	097.48	12.80	0.00	096.95	098.75	82.40	0.00	100.58	102.49	101.06	103.88	
6	14.70	0.00	097.66	097.28	14.20	0.00	097.05	100.04	78.70	0.00	099.21	102.55	100.87	103.66	
7	16.30	0.00	097.35	097.23	12.60	0.00	098.08	099.21	81.90	0.00	099.01	102.92	100.95	103.36	
8	14.90	0.00	097.35	098.54	12.60	0.00	097.87	099.02	86.60	0.00	099.10	104.19	101.19	103.09	
9	21.00	0.00	097.08	098.06	12.40	0.00	098.04	099.23	100.10	0.00	099.66	103.94	101.33	102.95	
10	21.60	0.00	097.53	098.72	12.20	0.00	098.46	100.11	101.00	0.00	101.16	103.20	101.52	103.15	
11	22.20	0.00	098.39	098.94	21.00	0.00	100.25	101.15	83.30	0.00	103.17	103.65	101.69	103.32	
12	28.10	0.00	099.43	099.43	21.00	0.00	100.43	100.70	85.70	0.00	103.24	102.38	101.87	103.76	
13	31.20	0.00	099.76	099.57	29.60	0.00	103.04	101.20	113.40	0.00	000.00	103.94	102.09	104.16	
14	34.30	0.00	099.87	099.41	33.40	0.00	101.00	100.64	120.20	0.00	103.02	103.00	102.49	104.34	
15	36.10	0.00	099.95	099.64	36.30	0.00	100.19	100.32	119.90	0.00	105.37	102.44	102.94	104.59	
16	36.00	0.00	099.33	099.57	36.40	0.00	102.83	100.47	120.40	0.00	107.80	102.46	103.14	104.81	
17	38.30	0.00	099.40	099.52	39.80	0.00	102.05	100.43	124.10	0.00	107.72	104.00	103.13	104.86	
18	38.10	0.00	100.21	099.32	40.80	0.00	104.10	100.16	111.50	0.00	107.70	103.13	103.02	104.91	
19	42.00	0.00	100.76	099.05	41.70	0.00	105.57	100.04	108.70	0.00	107.84	103.85	103.06	104.80	
20	41.80	0.00	100.09	098.33	42.30	0.00	106.94	099.68	106.60	0.00	106.27	104.26	103.08	104.71	
21	42.10	0.00	100.05	098.10	42.40	0.00	107.02	100.65	107.80	0.00	104.25	105.31	102.89	104.55	
22	42.20	0.00	099.88	098.13	42.30	0.00	104.74	099.59	102.50	0.00	105.52	106.13	102.72	104.40	
23	42.40	0.00	099.65	098.07	41.70	0.00	103.55	099.59	111.40	0.00	105.91	105.82	102.52	104.35	
24	38.20	0.00	099.04	099.52	40.40	0.00	104.51	099.53	108.70	0.00	103.33	106.99	102.49	104.35	

06 AUG 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

06 AUG 2001

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	
1	10.50	0.00	098.34	099.49	099.59	101.10	15.70	0.00	107.99	*****	16.20	0.00	102.17	098.69	
2	10.30	0.00	098.30	099.20	099.44	100.68	15.60	0.00	108.05	099.06	14.70	0.00	102.94	098.37	
3	10.50	0.00	098.22	099.11	099.34	100.20	15.30	0.00	107.73	099.05	14.50	0.00	103.02	098.08	
4	10.30	0.00	098.35	098.95	099.16	099.92	16.80	0.00	107.55	098.86	14.70	0.00	102.70	097.90	
5	10.50	0.00	098.29	098.81	099.13	099.60	15.30	0.00	107.06	098.81	14.50	0.00	102.79	097.74	
6	10.30	0.00	098.08	098.84	099.07	099.29	14.90	0.00	107.06	099.31	14.50	0.00	102.82	097.82	
7	10.50	0.00	098.06	099.20	099.34	099.25	16.70	0.00	106.88	100.19	14.50	0.00	102.59	097.51	
8	10.40	0.00	098.18	100.12	099.84	099.72	15.60	0.00	106.90	100.01	14.60	0.00	102.84	097.79	
9	10.50	0.00	098.38	101.25	100.26	100.55	16.80	0.00	106.76	101.02	15.00	0.00	103.54	098.07	
10	10.30	0.00	098.70	102.29	100.91	101.45	26.90	0.00	107.06	100.91	27.10	0.00	104.48	098.47	
11	10.50	0.00	099.07	103.43	102.38	102.50	27.00	0.00	107.15	100.86	27.50	0.00	105.10	099.21	
12	10.40	0.00	099.17	104.37	103.24	103.50	26.90	0.00	107.25	101.19	27.50	0.00	106.52	099.43	
13	10.50	0.00	099.30	105.46	102.94	104.45	27.00	0.00	107.75	100.94	29.00	0.00	105.67	099.53	
14	10.30	0.00	099.11	105.93	104.07	105.21	27.40	0.00	108.27	100.86	27.50	0.00	105.09	099.68	
15	10.40	0.00	099.19	106.31	104.07	105.84	26.60	0.00	108.20	101.07	29.10	0.00	105.20	099.76	
16	10.40	0.00	099.13	106.21	104.36	106.14	27.90	0.00	108.37	101.01	30.50	0.00	104.99	099.99	
17	10.40	0.00	099.18	105.63	104.25	106.38	34.10	0.00	107.52	100.95	31.90	0.00	105.61	099.96	
18	10.60	0.00	098.97	104.18	103.68	106.15	32.10	0.00	106.35	100.30	29.50	0.00	106.01	099.71	
19	10.50	0.00	099.18	103.35	102.54	105.72	33.70	0.00	106.62	100.97	33.90	0.00	107.95	099.44	
20	10.60	0.00	098.52	102.47	101.75	104.91	35.50	0.00	106.60	100.69	34.20	0.00	110.23	099.29	
21	10.50	0.00	098.44	101.69	101.02	103.85	34.50	0.00	107.34	100.47	34.20	0.00	108.25	099.08	
22	10.50	0.00	098.32	101.08	100.54	103.11	33.70	0.00	105.82	100.42	34.60	0.00	109.53	098.86	
23	10.50	0.00	098.28	100.65	100.31	102.42	33.40	0.00	106.58	100.24	35.10	0.00	111.36	099.02	
24	10.60	0.00	098.36	100.34	099.89	101.83	28.00	0.00	107.34	100.07	25.30	0.00	112.90	098.68	
LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT	
1	17.70	0.00	100.87	098.51	12.90	0.00	099.47	098.90	71.70	0.00	103.07	102.07	101.70	102.60	
2	14.40	0.00	100.41	098.32	12.80	0.00	099.20	098.70	79.30	0.00	102.92	102.54	101.64	102.33	
3	14.40	0.00	099.92	098.07	12.90	0.00	099.79	098.55	77.90	0.00	102.31	102.49	101.32	102.33	
4	14.40	0.00	100.03	097.91	12.90	0.00	099.12	099.19	73.80	0.00	102.29	102.45	101.42	102.32	
5	14.70	0.00	099.60	097.82	14.60	0.00	098.94	099.28	88.50	0.00	102.95	102.29	101.16	102.16	
6	14.40	0.00	099.57	097.53	13.00	0.00	098.78	099.54	81.30	0.00	102.98	102.41	101.12	102.13	
7	14.50	0.00	099.24	097.76	12.90	0.00	099.03	099.38	80.30	0.00	103.26	102.08	101.16	102.09	
8	14.40	0.00	098.95	098.02	12.90	0.00	098.57	099.59	82.20	0.00	103.63	104.56	101.42	102.06	
9	14.50	0.00	099.09	098.59	12.80	0.00	098.98	100.87	82.80	0.00	103.19	103.00	101.57	102.18	
10	15.10	0.00	099.27	099.07	15.20	0.00	099.26	100.58	82.20	0.00	103.64	103.06	102.02	102.53	
11	31.20	0.00	099.47	099.44	21.20	0.00	101.83	100.64	78.50	0.00	103.99	102.30	102.33	102.67	
12	32.60	0.00	100.91	099.99	31.60	0.00	101.79	101.39	74.40	0.00	104.34	102.54	102.80	103.01	
13	32.00	0.00	101.35	099.97	34.60	0.00	102.50	101.05	75.20	0.00	103.98	102.49	103.17	103.22	
14	32.00	0.00	100.52	100.21	34.80	0.00	100.86	100.88	75.80	0.00	103.31	103.77	102.97	103.29	
15	33.30	0.00	102.73	101.75	36.20	0.00	100.68	100.80	84.40	0.00	102.78	103.69	103.02	103.50	
16	34.70	0.00	101.47	100.65	38.20	0.00	100.63	100.71	78.70	0.00	102.41	102.88	103.03	103.73	
17	33.80	0.00	100.83	100.35	37.60	0.00	100.84	100.65	83.10	0.00	102.76	103.06	102.94	103.93	
18	34.00	0.00	100.59	100.23	39.10	0.00	100.35	100.55	78.20	0.00	104.24	102.69	102.98	103.83	
19	36.60	0.00	100.35	100.39	39.10	0.00	100.52	100.29	87.20	0.00	105.70	102.98	102.90	104.14	
20	36.90	0.00	101.30	099.12	39.10	0.00	102.20	100.15	87.60	0.00	101.55	103.54	102.76	104.40	
21	35.00	0.00	101.49	099.02	39.70	0.00	100.45	099.84	90.00	0.00	102.56	103.34	102.68	104.75	
22	36.20	0.00	101.55	098.64	38.40	0.00	099.73	099.63	87.50	0.00	104.27	102.87	102.85	104.54	
23	35.20	0.00	101.97	098.59	34.80	0.00	099.41	099.63	89.50	0.00	104.16	102.50	102.39	104.62	
24	26.60	0.00	101.35	098.51	25.10	0.00	099.57	099.27	89.10	0.00	102.89	102.69	102.33	104.62	

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HOUR	DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
	TOTAL DISCH. KCFS	SPILL KCFS	GAS TAILW.	%SAT	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	
1	10.40	0.00	098.97	099.02	099.63	100.39	14.70	0.00	102.99	099.22	14.30	0.00	101.61	097.70		
2	10.50	0.00	098.78	098.77	099.62	100.11	14.50	0.00	102.80	099.01	15.30	0.00	101.54	097.53		
3	10.40	0.00	098.73	098.40	099.61	099.77	14.30	0.00	102.86	098.86	13.20	0.00	101.50	097.48		
4	10.40	0.00	098.67	098.21	099.32	099.48	14.20	0.00	102.81	098.67	13.00	0.00	101.49	097.49		
5	10.50	0.00	098.66	098.04	099.39	099.25	14.10	0.00	102.90	098.62	15.50	0.00	101.47	097.58		
6	10.20	0.00	098.59	097.95	099.12	099.10	16.40	0.00	102.70	099.01	14.90	0.00	101.16	097.53		
7	10.60	0.00	098.69	098.45	099.51	099.07	14.10	0.00	102.83	099.49	16.10	0.00	100.86	098.03		
8	10.40	0.00	098.82	099.68	100.07	099.69	15.70	0.00	102.97	099.76	16.60	0.00	100.99	098.68		
9	10.50	0.00	098.96	101.16	100.50	100.38	18.70	0.00	103.55	100.31	17.30	0.00	100.99	098.71		
10	10.40	0.00	099.43	102.70	101.09	101.40	19.70	0.00	104.53	100.50	22.50	0.00	101.30	099.03		
11	10.50	0.00	099.50	104.03	102.76	102.38	28.00	0.00	105.97	100.56	26.40	0.00	101.45	099.81		
12	10.40	0.00	099.84	105.04	103.60	103.43	27.30	0.00	106.46	100.79	25.90	0.00	101.53	099.91		
13	10.30	0.00	099.82	105.99	103.14	104.33	30.50	0.00	108.42	100.99	28.40	0.00	101.74	099.99		
14	10.60	0.00	099.90	106.42	104.32	105.08	31.00	0.00	109.91	100.89	32.80	0.00	102.60	099.88		
15	10.40	0.00	099.81	106.45	104.43	105.85	31.50	0.00	110.14	101.22	34.50	0.00	103.19	100.05		
16	10.60	0.00	099.63	106.36	104.50	106.16	32.80	0.00	110.68	101.40	33.90	0.00	104.85	100.36		
17	10.40	0.00	099.80	105.75	104.32	106.33	34.90	0.00	110.71	101.26	38.50	0.00	104.86	100.54		
18	10.30	0.00	099.67	104.18	103.63	106.24	35.10	0.00	110.96	101.12	36.50	0.00	105.43	100.35		
19	10.50	0.00	099.80	103.25	102.74	105.64	35.10	0.00	111.31	101.09	35.10	0.00	103.55	100.25		
20	10.30	0.00	098.75	102.32	101.81	104.76	35.00	0.00	111.02	100.66	35.50	0.00	103.19	099.95		
21	10.50	0.00	098.49	101.37	100.95	103.69	34.80	0.00	110.63	210.50	35.80	0.00	102.14	099.57		
22	10.40	0.00	098.51	100.65	100.37	102.92	34.80	0.00	109.36	100.39	36.00	0.00	102.01	099.65		
23	10.60	0.00	098.50	100.05	100.16	102.21	18.20	0.00	109.18	100.05	26.20	0.00	102.04	099.32		
24	10.30	0.00	098.40	099.84	099.77	101.60	15.70	0.00	108.60	099.60	16.70	0.00	101.85	098.89		
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT		
1	18.10	0.00	101.23	098.21	20.30	0.00	100.15	098.87	69.60	0.00	102.52	100.57	100.46	102.12		
2	16.10	0.00	100.94	098.35	12.90	0.00	099.43	098.43	73.40	0.00	102.35	100.44	100.41	101.98		
3	13.70	0.00	100.75	099.21	12.90	0.00	098.92	098.56	68.40	0.00	102.17	101.41	100.24	101.96		
4	15.10	0.00	099.79	098.27	12.90	0.00	098.85	098.52	66.00	0.00	101.62	101.02	100.22	101.65		
5	13.80	0.00	100.12	098.50	12.90	0.00	098.68	098.22	67.50	0.00	101.96	101.15	100.48	101.23		
6	13.70	0.00	099.93	098.02	13.00	0.00	098.35	098.59	66.20	0.00	101.50	101.18	100.44	100.92		
7	13.80	0.00	099.79	098.11	12.80	0.00	098.74	098.83	71.30	0.00	101.24	101.99	100.52	100.78		
8	14.10	0.00	099.92	098.37	12.80	0.00	098.59	099.06	72.30	0.00	101.14	102.48	100.79	100.86		
9	14.20	0.00	100.19	098.96	13.00	0.00	098.46	099.30	68.90	0.00	100.86	102.80	101.22	101.03		
10	21.40	0.00	100.11	099.73	21.90	0.00	098.86	100.13	74.40	0.00	100.91	102.77	101.48	101.05		
11	21.30	0.00	100.39	100.48	20.50	0.00	100.49	100.36	85.90	0.00	101.81	103.12	101.94	101.21		
12	22.10	0.00	100.98	100.53	22.20	0.00	100.41	101.36	87.10	0.00	102.42	102.59	102.12	101.35		
13	28.10	0.00	101.70	101.03	28.10	0.00	100.87	100.88	88.30	0.00	102.24	103.27	102.46	101.45		
14	34.20	0.00	100.71	101.16	32.60	0.00	100.52	100.81	89.90	0.00	102.03	102.91	102.65	101.63		
15	35.00	0.00	100.98	101.11	37.00	0.00	100.59	100.83	90.10	0.00	101.53	103.65	102.60	102.10		
16	35.80	0.00	100.90	101.12	35.90	0.00	100.24	100.71	91.20	0.00	101.95	103.42	102.63	102.02		
17	36.70	0.00	100.92	101.03	37.90	0.00	100.52	101.03	81.60	0.00	104.14	103.45	102.37	102.34		
18	36.80	0.00	100.64	100.75	35.80	0.00	100.53	100.47	84.70	0.00	104.28	102.94	102.32	102.58		
19	36.70	0.00	102.29	100.25	35.80	0.00	102.44	101.07	87.90	0.00	104.81	103.20	102.32	102.90		
20	36.40	0.00	100.78	099.64	35.60	0.00	102.94	100.17	88.20	0.00	104.79	104.23	102.09	103.10		
21	36.40	0.00	102.70	099.33	35.60	0.00	102.27	099.79	89.40	0.00	104.67	105.19	101.99	102.72		
22	36.10	0.00	101.00	099.08	35.30	0.00	101.25	099.57	89.60	0.00	104.57	103.87	101.91	102.63		
23	27.60	0.00	101.72	098.88	26.00	0.00	100.63	099.26	83.80	0.00	103.58	103.00	101.82	102.68		
24	26.60	0.00	101.31	098.71	12.90	0.00	099.79	099.08	67.00	0.00	103.11	102.67	101.74	102.68		

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HOUR	DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.		
1	10.20	0.00	099.40	099.03	100.53	101.33	17.50	0.00	100.19	099.42	19.80	0.00	098.75	098.03		
2	10.50	0.00	099.51	098.92	100.22	100.78	17.40	0.00	099.63	098.96	17.10	0.00	098.71	098.01		
3	10.00	0.00	099.50	098.87	099.96	100.50	17.20	0.00	099.92	099.26	16.50	0.00	098.96	097.88		
4	10.40	0.00	099.29	098.82	099.96	100.03	17.50	0.00	099.59	099.10	18.10	0.00	098.92	097.81		
5	10.20	0.00	099.28	098.61	099.81	099.72	17.80	0.00	099.53	099.00	16.60	0.00	098.84	097.76		
6	10.30	0.00	099.33	098.55	099.92	099.50	17.40	0.00	099.23	099.29	16.60	0.00	098.71	097.88		
7	10.30	0.00	099.37	098.82	099.90	099.34	18.90	0.00	099.49	099.22	16.60	0.00	098.70	097.60		
8	10.50	0.00	099.20	099.38	100.42	099.84	19.40	0.00	099.53	099.50	17.40	0.00	098.66	097.69		
9	10.30	0.00	099.69	100.84	101.21	100.73	29.20	0.00	099.62	099.80	29.60	0.00	098.80	098.39		
10	10.50	0.00	099.70	101.97	101.90	101.53	32.50	0.00	099.85	099.60	32.80	0.00	099.07	098.10		
11	10.30	0.00	099.86	102.97	102.74	102.23	30.70	0.00	099.88	099.48	33.10	0.00	099.58	098.23		
12	10.40	0.00	100.08	104.10	103.33	103.23	31.00	0.00	099.76	099.62	33.10	0.00	099.62	098.37		
13	10.40	0.00	100.00	104.85	103.61	103.96	31.10	0.00	099.68	099.77	33.70	0.00	099.99	098.49		
14	10.30	0.00	100.11	103.25	104.30	104.15	31.00	0.00	099.88	100.03	33.10	0.00	099.68	098.30		
15	10.60	0.00	099.78	102.01	103.50	103.40	34.40	0.00	099.97	099.72	36.00	0.00	099.45	098.18		
16	10.40	0.00	098.81	103.18	102.29	102.96	32.20	0.00	100.24	099.84	34.60	0.00	099.48	098.50		
17	10.50	0.00	099.39	103.63	102.37	103.49	32.30	0.00	100.03	100.04	36.10	0.00	099.49	098.53		
18	10.30	0.00	099.48	102.98	102.15	104.05	32.40	0.00	101.24	100.03	36.10	0.00	099.64	098.51		
19	10.60	0.00	099.39	102.23	102.15	103.75	30.40	0.00	102.04	099.88	34.60	0.00	099.66	098.55		
20	10.40	0.00	099.00	101.34	101.24	103.18	31.60	0.00	101.59	099.73	35.30	0.00	099.60	098.37		
21	10.40	0.00	098.85	100.28	100.64	102.33	33.10	0.00	101.83	099.68	36.10	0.00	099.57	098.18		
22	10.40	0.00	098.78	099.80	100.33	101.71	35.30	0.00	102.04	099.64	35.70	0.00	099.50	098.13		
23	10.20	0.00	098.89	099.39	100.01	101.29	34.60	0.00	103.22	099.60	34.80	0.00	100.82	098.06		
24	10.50	0.00	098.77	099.34	100.00	100.82	25.90	0.00	102.90	099.42	25.20	0.00	101.54	097.79		
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT		
1	13.60	0.00	100.20	098.38	9.60	0.00	098.96	099.05	66.70	0.00	101.28	100.48	100.40	104.35		
2	13.70	0.00	100.34	098.46	9.60	0.00	099.61	098.86	73.20	0.00	099.91	099.80	100.37	104.07		
3	13.50	0.00	100.43	098.43	11.30	0.00	099.16	098.85	76.40	0.00	099.31	100.01	100.49	103.75		
4	13.60	0.00	100.12	098.37	9.40	0.00	098.88	100.39	81.80	0.00	100.77	100.00	100.41	103.66		
5	13.80	0.00	099.96	098.37	9.30	0.00	098.31	099.35	77.30	0.00	100.98	099.47	100.29	103.41		
6	13.50	0.00	100.05	098.30	9.30	0.00	098.15	099.17	78.10	0.00	101.34	099.81	100.15	103.25		
7	13.60	0.00	099.60	098.41	9.40	0.00	098.65	099.24	92.90	0.00	101.46	099.76	100.09	103.12		
8	14.10	0.00	099.62	098.68	10.00	0.00	098.01	099.71	98.40	0.00	101.57	100.56	100.19	102.94		
9	27.30	0.00	100.26	098.90	20.90	0.00	099.13	100.20	84.60	0.00	101.56	101.30	100.15	102.78		
10	34.80	0.00	100.26	099.14	31.80	0.00	098.73	100.87	98.10	0.00	101.45	101.35	100.46	102.68		
11	36.20	0.00	100.35	099.28	34.80	0.00	098.88	100.68	80.30	0.00	101.57	101.08	100.74	102.66		
12	37.90	0.00	100.12	099.09	36.50	0.00	099.02	099.71	80.70	0.00	101.42	101.17	100.98	102.64		
13	37.30	0.00	100.09	099.21	35.70	0.00	099.01	099.60	78.30	0.00	101.82	101.36	101.29	102.68		
14	37.40	0.00	099.85	099.20	35.20	0.00	099.27	099.72	72.70	0.00	101.41	102.05	101.43	102.81		
15	38.70	0.00	100.54	099.55	40.70	0.00	099.73	100.81	76.80	0.00	102.17	101.60	101.63	103.03		
16	38.60	0.00	100.99	099.95	39.50	0.00	100.55	100.05	97.60	0.00	102.33	101.91	101.90	103.20		
17	38.80	0.00	101.68	099.84	39.30	0.00	100.19	100.44	102.60	0.00	102.76	102.16	101.94	103.32		
18	38.80	0.00	101.79	099.68	39.30	0.00	099.01	100.03	101.40	0.00	103.73	102.63	101.83	103.76		
19	39.30	0.00	102.36	099.46	40.00	0.00	099.29	099.63	92.40	0.00	103.43	101.65	101.67	103.49		
20	38.60	0.00	102.58	099.08	40.70	0.00	099.10	099.44	95.50	0.00	101.78	101.35	101.62	103.61		
21	38.10	0.00	101.09	098.86	40.80	0.00	099.55	099.24	93.80	0.00	102.14	100.83	101.41	103.53		
22	37.80	0.00	100.55	098.73	40.70	0.00	099.63	099.59	91.90	0.00	102.01	100.88	101.30	103.04		
23	37.00	0.00	101.21	098.52	39.20	0.00	098.91	099.27	90.70	0.00	102.89	100.15	100.99	102.81		
24	27.70	0.00	101.18	098.49	29.20	0.00	099.13	099.48	77.60	0.00	102.83	100.48	100.66	102.81		

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DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	
1	10.40	0.00	099.20	100.07	100.25	101.45	14.80	0.00	102.50	098.19	14.40	0.00	099.50	097.88	
2	10.00	0.00	099.25	100.03	100.15	100.99	14.80	0.00	101.50	098.15	14.30	0.00	099.56	097.71	
3	10.50	0.00	099.28	100.16	100.05	100.55	15.10	0.00	101.08	097.98	14.40	0.00	099.68	097.54	
4	10.30	0.00	099.35	100.11	099.96	100.16	17.20	0.00	100.91	097.95	14.70	0.00	099.84	097.67	
5	10.30	0.00	099.22	099.85	099.89	099.70	17.70	0.00	101.99	098.05	14.30	0.00	099.96	097.52	
6	10.30	0.00	099.14	099.82	099.88	099.57	17.70	0.00	100.61	098.29	15.80	0.00	099.84	097.95	
7	10.30	0.00	099.31	099.80	100.11	099.37	26.30	0.00	100.34	098.41	17.70	0.00	099.78	098.02	
8	10.00	0.00	099.40	099.89	100.70	099.89	32.40	0.00	100.32	098.59	27.90	0.00	099.53	098.35	
9	10.30	0.00	099.77	101.07	101.27	100.76	32.40	0.00	100.78	098.75	29.50	0.00	099.85	098.78	
10	10.40	0.00	099.85	102.53	101.90	101.69	40.10	0.00	102.61	099.07	42.10	0.00	099.78	099.52	
11	10.40	0.00	099.95	103.98	103.24	102.42	39.20	0.00	102.23	099.55	43.50	0.00	099.57	099.68	
12	10.40	0.00	100.30	105.16	103.84	103.44	36.00	0.00	103.13	099.50	40.20	0.00	099.50	099.46	
13	10.30	0.00	100.53	105.94	103.74	104.19	36.80	0.00	102.64	099.43	40.10	0.00	099.54	099.53	
14	10.50	0.00	100.48	106.74	104.94	105.21	36.10	0.00	102.45	099.58	38.30	0.00	099.46	099.70	
15	10.30	0.00	100.70	106.52	105.02	105.81	37.90	0.00	104.57	000.00	37.30	0.00	099.54	099.76	
16	10.40	0.00	100.89	106.29	105.51	106.18	38.00	0.00	103.34	100.27	37.20	0.00	099.58	099.82	
17	10.50	0.00	100.92	105.83	105.28	106.40	36.40	0.00	102.48	100.22	37.30	0.00	099.85	099.91	
18	10.30	0.00	100.67	104.16	104.67	106.25	37.00	0.00	102.83	099.96	37.20	0.00	099.84	099.64	
19	10.60	0.00	100.92	103.17	103.60	105.68	35.80	0.00	102.68	099.67	39.00	0.00	099.65	099.26	
20	10.40	0.00	099.93	102.17	102.66	104.82	26.70	0.00	101.60	099.16	21.30	0.00	099.24	098.92	
21	10.50	0.00	099.82	101.22	101.80	103.71	19.10	0.00	101.15	099.39	19.80	0.00	099.10	098.55	
22	9.90	0.00	099.70	100.38	101.26	102.94	17.10	0.00	099.99	099.64	19.80	0.00	098.94	098.07	
23	10.50	0.00	099.70	099.67	101.07	102.40	17.70	0.00	100.14	099.22	19.80	0.00	098.77	097.94	
24	10.20	0.00	099.70	099.22	100.70	101.75	17.40	0.00	100.23	099.42	19.80	0.00	098.72	097.74	
LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT	
1	14.00	0.00	099.11	098.49	14.30	0.00	099.33	098.86	71.50	0.00	099.47	099.77	100.36	104.59	
2	15.10	0.00	099.05	098.42	12.90	0.00	098.80	098.76	73.10	0.00	099.45	099.47	100.35	104.58	
3	13.70	0.00	099.42	098.92	12.90	0.00	098.49	098.70	74.00	0.00	099.73	099.40	100.33	104.58	
4	13.80	0.00	099.27	098.58	13.10	0.00	099.00	098.73	71.10	0.00	099.83	099.09	100.20	104.55	
5	13.80	0.00	099.15	098.45	12.90	0.00	098.61	098.98	76.10	0.00	100.24	099.49	100.19	104.53	
6	13.70	0.00	099.15	098.60	12.80	0.00	098.61	100.44	91.60	0.00	101.72	100.01	100.03	104.39	
7	13.90	0.00	099.65	098.53	14.40	0.00	099.12	099.45	95.90	0.00	102.54	100.05	100.13	104.11	
8	20.30	0.00	099.56	099.13	13.00	0.00	099.10	099.71	98.60	0.00	102.97	100.51	100.41	103.99	
9	28.00	0.00	099.45	100.28	14.10	0.00	098.74	100.00	103.90	0.00	103.14	100.93	100.69	104.01	
10	35.20	0.00	099.73	100.47	26.60	0.00	098.76	100.94	95.90	0.00	103.85	100.31	101.04	104.16	
11	43.00	0.00	099.65	100.16	33.40	0.00	098.81	101.20	96.50	0.00	102.44	099.99	101.33	104.38	
12	43.10	0.00	100.35	100.08	41.80	0.00	099.12	100.90	91.50	0.00	100.85	099.76	101.52	104.70	
13	42.90	0.00	100.69	100.20	43.80	0.00	100.39	100.59	97.00	0.00	101.00	099.88	101.73	105.01	
14	41.10	0.00	100.75	100.32	42.30	0.00	099.80	100.94	94.80	0.00	100.52	100.21	101.69	105.35	
15	40.90	0.00	100.97	100.54	44.50	0.00	101.14	101.25	95.30	0.00	100.55	100.54	101.76	105.86	
16	39.90	0.00	101.81	100.71	43.70	0.00	099.95	100.93	93.80	0.00	099.14	100.47	102.08	106.47	
17	39.40	0.00	100.03	100.62	42.30	0.00	100.01	100.83	96.30	0.00	098.86	100.43	102.05	106.57	
18	39.50	0.00	099.42	100.34	42.30	0.00	099.68	100.55	92.00	0.00	100.83	100.09	101.85	106.47	
19	39.50	0.00	099.47	099.70	42.40	0.00	099.87	099.93	92.00	0.00	102.10	099.92	101.40	106.03	
20	39.60	0.00	100.47	099.18	43.90	0.00	099.66	099.46	74.80	0.00	101.12	099.60	100.96	105.72	
21	38.90	0.00	100.67	098.82	42.60	0.00	099.89	099.53	78.80	0.00	100.51	099.76	100.49	105.37	
22	22.10	0.00	100.48	098.55	30.20	0.00	099.12	099.47	87.00	0.00	101.25	099.71	100.19	105.06	
23	19.90	0.00	099.37	098.93	30.60	0.00	099.10	099.21	77.20	0.00	101.40	099.60	100.01	104.90	
24	15.30	0.00	099.93	098.24	13.30	0.00	099.13	099.17	83.10	0.00	101.40	100.92	100.28	104.90	

02 AUG 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

02 AUG 2001

HOUR	DWRSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	
1	10.00	0.00	099.05	099.91	100.16	101.05	13.80	0.00	102.49	097.39	12.70	0.00	099.24	098.14	
2	10.20	0.00	098.97	099.62	100.12	100.61	14.20	0.00	103.24	097.21	12.60	0.00	099.22	097.85	
3	9.90	0.00	098.96	099.46	099.92	100.27	14.30	0.00	103.75	096.91	12.70	0.00	099.22	097.71	
4	10.10	0.00	098.90	099.40	099.80	099.81	14.30	0.00	103.34	096.91	12.50	0.00	099.18	097.54	
5	10.00	0.00	098.73	099.35	099.65	099.50	14.50	0.00	103.34	096.83	12.60	0.00	098.75	097.25	
6	10.10	0.00	098.82	099.49	099.66	099.22	14.40	0.00	102.69	097.33	12.50	0.00	098.15	097.21	
7	10.00	0.00	098.76	099.39	099.84	099.17	15.30	0.00	102.55	097.43	12.40	0.00	097.97	097.04	
8	10.20	0.00	098.89	099.77	100.35	099.68	30.40	0.00	102.54	097.69	13.40	0.00	097.82	097.42	
9	10.10	0.00	099.07	101.08	100.90	100.50	39.00	0.00	103.09	100.00	29.70	0.00	097.94	098.25	
10	10.00	0.00	099.27	102.31	101.41	101.37	42.00	0.00	103.88	098.53	39.90	0.00	097.71	098.23	
11	9.90	0.00	099.50	103.45	102.85	102.35	41.00	0.00	103.81	099.09	40.30	0.00	097.64	098.12	
12	9.90	0.00	099.67	104.79	103.54	103.42	40.40	0.00	104.13	098.98	40.20	0.00	098.07	098.46	
13	9.80	0.00	099.76	105.83	103.24	104.26	35.80	0.00	103.78	099.05	42.60	0.00	098.66	098.52	
14	10.30	0.00	099.99	106.66	104.47	105.04	35.10	0.00	103.62	098.91	40.20	0.00	098.90	098.73	
15	9.70	0.00	100.10	106.82	104.47	105.70	35.20	0.00	104.64	098.99	39.70	0.00	098.87	100.04	
16	10.30	0.00	100.05	106.71	104.88	106.05	39.00	0.00	104.75	099.21	37.80	0.00	098.98	099.61	
17	10.30	0.00	100.15	106.25	104.72	106.24	30.40	0.00	104.27	099.18	35.90	0.00	098.92	099.41	
18	10.00	0.00	100.10	104.61	104.10	106.05	30.40	0.00	103.68	099.10	33.60	0.00	098.99	099.21	
19	9.80	0.00	100.15	103.79	103.22	105.68	30.20	0.00	103.49	099.12	32.40	0.00	098.99	098.95	
20	10.10	0.00	099.63	102.81	102.40	104.93	27.90	0.00	104.32	098.75	32.10	0.00	099.31	098.63	
21	10.10	0.00	099.37	102.04	101.64	103.91	25.90	0.00	103.90	098.61	29.60	0.00	099.73	098.60	
22	9.70	0.00	099.36	101.35	101.20	103.23	17.90	0.00	103.45	098.56	20.60	0.00	099.56	098.31	
23	10.20	0.00	099.36	100.97	100.89	102.56	16.70	0.00	105.63	098.49	20.20	0.00	099.57	098.32	
24	10.20	0.00	099.35	100.54	100.62	102.03	14.90	0.00	103.18	098.46	17.40	0.00	099.50	098.15	
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT	
1	19.30	0.00	099.41	097.80	25.50	0.00	098.71	098.81	67.30	0.00	099.00	098.66	099.75	103.93	
2	13.70	0.00	099.22	097.69	12.90	0.00	098.44	098.60	66.60	0.00	099.76	098.19	099.71	103.76	
3	15.00	0.00	098.89	097.79	12.90	0.00	097.57	098.54	65.00	0.00	100.11	098.43	099.78	103.57	
4	13.50	0.00	098.19	098.81	12.90	0.00	097.27	098.39	64.50	0.00	099.92	098.26	099.60	103.57	
5	13.50	0.00	099.14	097.88	13.20	0.00	096.74	098.39	64.00	0.00	099.93	098.35	099.17	103.54	
6	13.50	0.00	098.30	097.58	12.90	0.00	096.70	099.59	65.00	0.00	100.00	098.18	099.03	103.36	
7	13.80	0.00	098.13	097.80	11.50	0.00	096.54	099.27	65.50	0.00	100.00	098.14	099.09	103.21	
8	13.60	0.00	097.86	098.20	11.40	0.00	096.23	098.94	88.80	0.00	099.97	098.29	099.21	103.02	
9	14.00	0.00	098.41	098.86	12.90	0.00	096.07	100.29	113.80	0.00	099.84	098.66	099.60	103.04	
10	28.10	0.00	098.81	099.09	11.60	0.00	095.45	100.55	114.50	0.00	099.18	098.99	099.92	103.06	
11	39.00	0.00	098.82	099.45	25.50	0.00	096.28	100.65	112.10	0.00	100.41	098.50	100.26	103.34	
12	41.00	0.00	098.45	099.20	38.70	0.00	096.84	101.54	87.10	0.00	099.06	098.72	100.60	103.57	
13	42.60	0.00	098.38	099.32	39.40	0.00	097.16	100.00	83.10	0.00	099.39	098.76	100.81	103.91	
14	43.30	0.00	098.83	099.56	42.10	0.00	098.65	099.84	70.10	0.00	099.85	099.05	?UNDEF	104.14	
15	44.90	0.00	099.53	099.73	43.90	0.00	098.74	099.68	67.80	0.00	099.83	100.04	?UNDEF	104.53	
16	35.90	0.00	099.38	099.88	43.80	0.00	098.96	100.01	82.00	0.00	100.05	100.43	?UNDEF	104.92	
17	39.20	0.00	098.88	099.92	43.20	0.00	098.62	099.65	97.70	0.00	100.12	099.41	?UNDEF	105.15	
18	39.60	0.00	099.07	099.79	42.40	0.00	099.54	100.16	95.70	0.00	099.84	099.92	101.17	105.49	
19	40.10	0.00	099.53	099.40	42.40	0.00	100.25	099.65	98.30	0.00	099.99	100.36	101.20	105.66	
20	39.40	0.00	099.26	099.23	43.60	0.00	099.57	099.37	96.00	0.00	099.77	099.72	100.96	105.38	
21	31.90	0.00	099.25	098.89	32.20	0.00	100.23	099.24	77.80	0.00	101.07	099.69	100.64	105.19	
22	31.10	0.00	099.88	098.81	31.20	0.00	099.61	099.29	77.40	0.00	100.39	100.31	100.48	105.03	
23	25.90	0.00	099.35	098.63	21.40	0.00	099.91	099.01	76.00	0.00	100.08	101.47	100.41	104.88	
24	17.90	0.00	099.46	098.75	20.20	0.00	099.34	099.02	71.50	0.00	099.64	100.21	100.29	104.88	

01 AUG 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

01 AUG 2001

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	
1	10.40	0.00	099.05	099.85	100.07	101.22	13.60	0.00	102.61	098.59	13.00	0.00	099.50	097.35	
2	9.80	0.00	099.04	099.54	099.89	100.81	13.70	0.00	102.72	098.31	13.10	0.00	099.24	097.46	
3	10.20	0.00	098.84	099.36	099.80	100.36	13.40	0.00	102.45	098.15	14.80	0.00	098.81	097.46	
4	10.10	0.00	098.97	099.24	099.66	100.09	14.90	0.00	102.45	099.52	13.60	0.00	098.66	097.49	
5	10.20	0.00	098.96	099.24	099.63	099.68	13.70	0.00	102.27	098.66	13.80	0.00	098.74	097.30	
6	10.20	0.00	098.92	099.15	099.62	099.35	24.00	0.00	102.11	098.47	25.70	0.00	099.01	097.49	
7	10.10	0.00	099.00	099.22	099.84	099.31	26.50	0.00	101.94	098.57	29.00	0.00	099.37	097.73	
8	10.20	0.00	099.28	100.15	100.38	099.84	26.80	0.00	102.04	098.54	27.10	0.00	099.34	097.49	
9	10.10	0.00	099.46	101.24	101.11	100.64	28.00	0.00	102.03	098.85	28.20	0.00	099.37	097.90	
10	10.40	0.00	099.35	102.75	101.72	101.37	26.40	0.00	102.25	099.02	28.40	0.00	099.49	098.32	
11	9.90	0.00	099.57	103.99	102.85	102.40	26.40	0.00	102.84	099.19	27.20	0.00	100.47	098.49	
12	10.00	0.00	099.84	104.81	103.57	103.29	26.60	0.00	103.09	099.26	26.90	0.00	100.01	098.54	
13	10.00	0.00	099.89	105.32	103.79	104.09	26.90	0.00	103.37	099.21	27.10	0.00	099.65	098.73	
14	9.60	0.00	099.97	106.49	104.33	104.38	29.30	0.00	102.75	099.38	27.20	0.00	099.48	098.76	
15	9.80	0.00	100.04	107.09	104.17	104.75	27.10	0.00	103.06	099.56	28.70	0.00	099.27	098.94	
16	9.90	0.00	099.93	107.25	104.12	105.24	31.50	0.00	102.25	099.30	32.50	0.00	099.21	099.28	
17	9.90	0.00	100.01	106.48	104.14	105.36	31.50	0.00	102.05	099.21	32.10	0.00	098.95	099.29	
18	9.90	0.00	099.92	104.58	103.83	104.99	31.30	0.00	102.19	099.10	32.20	0.00	098.96	099.16	
19	9.80	0.00	100.01	103.61	102.94	104.55	26.70	0.00	102.12	098.64	33.90	0.00	099.17	099.00	
20	10.00	0.00	099.44	102.45	102.17	103.90	27.60	0.00	102.13	098.18	32.50	0.00	099.30	099.00	
21	9.80	0.00	099.20	101.51	101.38	103.17	26.00	0.00	101.09	098.12	32.20	0.00	099.13	098.69	
22	9.90	0.00	099.13	100.92	101.09	102.47	25.90	0.00	100.55	097.88	29.70	0.00	099.22	098.41	
23	9.80	0.00	099.12	100.38	100.74	101.86	26.00	0.00	101.36	097.88	28.20	0.00	099.62	098.39	
24	10.00	0.00	099.06	100.38	100.42	101.46	14.60	0.00	102.55	097.30	16.80	0.00	099.85	098.34	
LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT	
1	14.00	0.00	099.16	098.01	26.70	0.00	097.79	098.81	58.80	0.00	099.55	099.32	100.26	103.21	
2	13.60	0.00	099.21	097.85	14.80	0.00	097.56	098.68	68.00	0.00	099.52	099.18	099.99	103.16	
3	13.70	0.00	099.36	097.91	12.90	0.00	097.68	098.66	73.30	0.00	099.50	099.16	099.96	103.18	
4	13.90	0.00	099.33	097.92	12.90	0.00	097.16	099.47	75.30	0.00	099.60	098.87	099.81	103.14	
5	14.30	0.00	099.20	097.75	14.60	0.00	096.45	098.66	77.20	0.00	099.58	099.42	099.80	103.02	
6	26.80	0.00	098.86	097.68	25.00	0.00	096.91	100.45	81.00	0.00	099.27	098.69	099.62	102.79	
7	31.90	0.00	098.80	098.04	24.20	0.00	097.53	099.69	85.90	0.00	099.18	099.15	099.83	102.62	
8	28.60	0.00	098.54	098.31	25.10	0.00	097.78	100.48	74.30	0.00	098.89	099.27	100.07	102.57	
9	26.60	0.00	098.14	098.75	25.80	0.00	098.16	099.28	71.80	0.00	098.66	099.65	100.24	102.43	
10	28.40	0.00	098.46	099.09	27.00	0.00	098.47	099.53	71.70	0.00	098.60	099.68	100.50	102.48	
11	26.90	0.00	098.47	099.85	25.60	0.00	098.07	099.53	72.70	0.00	098.48	099.08	100.44	102.66	
12	26.90	0.00	098.67	099.81	27.10	0.00	099.03	100.69	74.10	0.00	098.49	098.70	100.69	102.95	
13	27.80	0.00	098.31	100.04	25.70	0.00	098.80	100.17	81.00	0.00	098.33	098.78	101.18	103.12	
14	27.20	0.00	098.61	100.25	25.60	0.00	098.73	100.15	72.40	0.00	098.49	098.96	100.99	103.44	
15	27.20	0.00	098.66	099.79	26.10	0.00	098.77	100.80	78.70	0.00	098.69	099.17	100.76	103.76	
16	32.30	0.00	099.92	099.97	31.20	0.00	098.81	100.57	91.40	0.00	099.00	099.07	100.97	104.10	
17	30.70	0.00	099.57	099.63	32.60	0.00	098.46	100.51	72.10	0.00	099.32	099.03	100.49	104.54	
18	30.70	0.00	099.14	099.21	31.10	0.00	099.14	100.09	69.60	0.00	099.48	098.77	100.41	104.82	
19	31.00	0.00	099.68	098.76	31.10	0.00	099.04	099.79	67.10	0.00	099.24	099.04	100.27	104.34	
20	30.60	0.00	099.28	098.60	32.70	0.00	098.78	099.77	67.60	0.00	098.90	098.76	100.09	104.16	
21	30.60	0.00	099.62	098.26	31.10	0.00	100.03	099.29	68.20	0.00	098.70	098.79	099.85	104.35	
22	30.60	0.00	100.66	098.34	31.70	0.00	099.85	099.11	66.00	0.00	098.25	098.58	099.68	104.54	
23	30.80	0.00	100.92	098.17	31.10	0.00	099.43	099.75	63.70	0.00	098.73	098.40	099.77	104.35	
24	28.00	0.00	099.96	098.00	29.00	0.00	098.73	098.92	63.30	0.00	098.99	098.92	099.72	104.35	

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WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

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DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.
1	9.90	0.00	098.97	099.46	099.81	100.19	13.40	0.00	100.71	099.37	15.00	0.00	099.69	098.92
2	9.80	0.00	099.08	099.27	099.77	099.88	13.00	0.00	101.01	099.07	13.70	0.00	099.57	098.62
3	10.10	0.00	099.08	099.24	099.59	099.74	15.00	0.00	101.40	099.68	14.20	0.00	099.61	098.80
4	10.00	0.00	099.09	099.00	099.65	099.58	13.20	0.00	101.39	099.09	13.70	0.00	099.60	098.61
5	10.20	0.00	099.05	098.96	099.55	099.39	17.50	0.00	101.33	099.01	19.60	0.00	099.41	098.44
6	9.90	0.00	098.96	098.89	099.54	099.19	19.00	0.00	100.94	098.93	23.70	0.00	099.13	098.38
7	10.30	0.00	098.92	098.96	099.69	099.15	25.00	0.00	100.85	100.05	24.70	0.00	098.91	098.45
8	9.90	0.00	099.00	099.57	100.01	099.48	25.70	0.00	100.54	100.13	24.70	0.00	098.74	098.28
9	9.40	0.00	099.36	100.78	100.75	100.28	29.20	0.00	100.54	100.00	26.50	0.00	098.66	098.21
10	9.50	0.00	099.49	102.14	101.41	101.24	24.90	0.00	100.27	100.01	26.10	0.00	098.66	098.24
11	9.80	0.00	099.63	103.70	102.62	102.18	26.30	0.00	101.10	099.88	24.60	0.00	098.63	098.38
12	9.80	0.00	099.70	104.81	103.33	103.13	26.10	0.00	101.16	099.88	24.70	0.00	098.67	098.41
13	9.90	0.00	099.85	105.68	103.33	104.09	26.10	0.00	101.16	099.93	24.60	0.00	098.62	098.42
14	9.90	0.00	100.01	106.53	103.87	104.65	27.90	0.00	101.06	099.84	25.10	0.00	098.74	098.61
15	9.60	0.00	100.05	106.41	104.16	104.86	27.70	0.00	101.52	100.03	26.20	0.00	098.69	098.68
16	9.80	0.00	099.97	106.21	104.30	105.32	23.90	0.00	101.04	099.68	24.70	0.00	098.60	098.58
17	9.70	0.00	099.88	106.11	104.14	105.63	29.60	0.00	102.25	099.96	28.70	0.00	098.54	098.63
18	10.30	0.00	099.62	104.33	103.68	105.67	27.90	0.00	101.36	099.91	30.60	0.00	098.62	098.53
19	10.30	0.00	099.88	103.18	102.70	105.27	27.80	0.00	100.86	099.48	31.20	0.00	098.56	098.53
20	10.60	0.00	099.20	102.38	101.81	104.61	26.10	0.00	101.93	098.92	30.70	0.00	098.55	098.13
21	10.50	0.00	099.13	101.47	101.09	103.60	28.10	0.00	102.52	099.05	28.80	0.00	098.63	098.10
22	9.80	0.00	098.98	100.88	100.71	102.87	25.90	0.00	103.18	098.71	27.20	0.00	098.75	097.94
23	10.00	0.00	098.96	100.33	100.42	102.19	25.50	0.00	103.03	098.75	27.00	0.00	098.71	097.77
24	10.10	0.00	099.08	100.15	100.19	101.76	17.50	0.00	102.76	098.58	26.20	0.00	098.98	097.75
LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT
1	14.40	0.00	098.73	098.14	12.90	0.00	096.69	100.25	63.50	0.00	099.73	100.97	101.13	102.32
2	14.70	0.00	098.53	098.08	13.00	0.00	097.05	099.53	64.90	0.00	099.83	100.66	100.81	102.14
3	14.40	0.00	098.39	097.79	12.90	0.00	096.50	098.95	66.20	0.00	099.96	100.36	100.65	101.98
4	13.80	0.00	098.45	097.87	12.80	0.00	096.76	098.76	73.80	0.00	100.42	100.23	100.49	101.95
5	19.20	0.00	098.31	097.81	13.00	0.00	097.11	099.31	66.90	0.00	100.50	100.19	100.29	101.81
6	21.20	0.00	098.25	097.72	20.40	0.00	097.19	099.49	64.90	0.00	100.45	099.71	100.09	101.75
7	21.40	0.00	098.61	097.83	22.10	0.00	096.98	099.47	72.70	0.00	099.96	099.67	100.07	101.53
8	22.20	0.00	098.54	098.16	20.40	0.00	097.04	100.05	70.30	0.00	099.55	099.75	100.26	101.62
9	26.20	0.00	098.42	099.17	20.50	0.00	096.98	099.31	71.00	0.00	098.86	099.58	100.37	101.83
10	26.60	0.00	098.26	099.03	27.10	0.00	097.44	100.39	68.70	0.00	098.78	099.85	100.52	102.36
11	28.30	0.00	098.15	099.72	25.90	0.00	097.18	099.84	68.80	0.00	099.21	099.79	100.83	102.77
12	26.90	0.00	097.90	099.81	25.80	0.00	097.31	100.65	67.70	0.00	099.23	099.79	101.28	103.08
13	27.60	0.00	099.13	099.60	25.80	0.00	097.35	100.05	69.10	0.00	098.60	099.44	101.59	103.37
14	27.10	0.00	099.02	099.77	26.00	0.00	097.39	100.36	69.20	0.00	099.63	099.81	101.68	103.72
15	27.10	0.00	098.66	100.11	27.10	0.00	097.44	100.24	68.00	0.00	100.19	099.71	101.48	104.04
16	27.00	0.00	099.37	099.93	25.60	0.00	097.53	100.29	69.00	0.00	100.74	099.77	101.41	104.21
17	27.10	0.00	099.56	099.88	25.50	0.00	097.86	101.04	79.20	0.00	100.60	099.75	101.33	104.42
18	27.20	0.00	098.75	099.49	25.70	0.00	098.04	100.28	82.10	0.00	100.57	099.92	101.11	104.34
19	30.40	0.00	098.27	099.13	30.70	0.00	098.04	099.88	80.80	0.00	100.49	099.93	101.04	104.65
20	31.90	0.00	099.76	098.53	31.50	0.00	098.04	099.72	79.30	0.00	099.80	099.80	100.77	104.59
21	30.30	0.00	100.07	098.32	31.00	0.00	098.42	099.68	79.50	0.00	099.76	100.00	100.56	104.49
22	27.70	0.00	099.00	098.09	29.40	0.00	098.24	099.77	81.40	0.00	099.48	100.09	100.37	104.14
23	27.10	0.00	099.69	098.09	27.10	0.00	098.23	098.87	80.20	0.00	099.44	099.75	100.08	103.75
24	28.40	0.00	099.38	098.43	28.50	0.00	098.10	099.67	75.30	0.00	099.28	099.30	100.04	103.75

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WALLA WALLA DISTRICT HYDRO PROJECTS
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DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.
1	9.90	0.00	099.17	099.69	100.14	100.55	13.10	0.00	099.77	099.37	15.70	0.00	099.73	098.38
2	9.90	0.00	099.20	099.62	099.95	100.34	14.20	0.00	100.20	099.23	13.90	0.00	099.76	098.42
3	9.90	0.00	099.18	099.62	100.05	100.05	14.20	0.00	101.40	099.38	13.20	0.00	099.61	098.34
4	9.90	0.00	099.18	099.62	099.90	099.78	14.50	0.00	101.27	099.35	13.30	0.00	099.61	098.22
5	9.90	0.00	099.33	099.62	099.88	099.64	14.30	0.00	101.24	099.22	16.90	0.00	099.61	098.46
6	9.90	0.00	099.29	099.58	099.80	099.34	17.40	0.00	101.35	099.18	22.30	0.00	099.53	098.55
7	9.90	0.00	099.24	099.52	100.10	099.42	17.50	0.00	101.56	099.27	20.80	0.00	099.62	098.66
8	9.90	0.00	099.20	099.92	100.31	099.39	25.40	0.00	101.56	106.91	21.30	0.00	099.48	098.76
9	9.90	0.00	099.35	100.19	100.59	099.81	29.30	0.00	101.48	100.83	25.20	0.00	099.44	099.13
10	9.90	0.00	099.66	100.88	101.20	100.26	31.30	0.00	101.56	100.87	29.50	0.00	099.60	099.01
11	9.90	0.00	099.78	101.43	101.57	100.92	30.80	0.00	101.42	100.73	29.80	0.00	099.64	099.32
12	9.50	0.00	099.95	101.82	102.11	101.48	31.00	0.00	100.92	100.63	29.90	0.00	099.65	099.49
13	9.50	0.00	099.96	102.25	102.26	101.75	31.20	0.00	101.61	100.69	29.40	0.00	099.81	099.81
14	9.50	0.00	099.82	102.48	102.21	102.04	30.60	0.00	100.57	100.70	29.60	0.00	100.00	099.81
15	9.50	0.00	099.51	103.00	102.09	102.29	32.80	0.00	101.39	100.44	30.90	0.00	100.01	099.68
16	9.90	0.00	099.66	102.74	102.09	102.42	31.50	0.00	100.74	100.62	29.40	0.00	100.05	099.60
17	9.70	0.00	099.51	102.51	101.63	102.42	26.10	0.00	100.92	100.36	29.80	0.00	100.04	099.58
18	9.80	0.00	099.27	102.16	101.25	102.17	26.50	0.00	101.05	100.09	26.00	0.00	100.04	099.52
19	9.70	0.00	099.51	101.91	101.23	102.17	26.40	0.00	101.70	099.93	25.90	0.00	100.04	099.52
20	10.20	0.00	099.37	101.52	100.63	101.89	26.30	0.00	101.67	099.66	25.80	0.00	100.07	099.37
21	10.00	0.00	099.27	100.83	100.30	101.34	19.20	0.00	101.24	099.76	27.20	0.00	100.04	099.33
22	10.00	0.00	099.05	100.31	100.18	100.93	19.50	0.00	101.23	099.50	20.50	0.00	100.01	098.95
23	9.90	0.00	099.04	099.85	100.01	100.66	19.10	0.00	100.66	099.45	19.30	0.00	099.85	099.04
24	10.10	0.00	099.02	099.88	099.80	100.35	20.40	0.00	101.43	099.27	19.00	0.00	099.79	098.97
LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT
1	15.60	0.00	100.27	098.70	12.80	0.00	098.21	099.43	63.50	0.00	100.86	101.49	101.51	102.63
2	14.10	0.00	100.16	098.68	11.50	0.00	097.91	100.56	65.50	0.00	100.61	101.51	101.53	102.52
3	13.80	0.00	100.00	098.58	10.20	0.00	097.90	099.32	63.10	0.00	100.47	101.37	101.38	102.47
4	14.30	0.00	099.84	098.40	10.00	0.00	097.61	099.27	70.40	0.00	100.35	101.05	101.24	102.42
5	16.60	0.00	099.83	098.54	12.60	0.00	097.31	099.61	73.70	0.00	100.55	101.19	101.33	102.24
6	18.90	0.00	099.66	098.33	12.90	0.00	097.68	099.75	70.50	0.00	100.77	100.95	101.50	101.84
7	18.00	0.00	099.58	098.55	13.10	0.00	097.58	101.01	65.50	0.00	100.69	100.83	101.22	101.44
8	20.10	0.00	099.57	098.93	22.00	0.00	097.88	100.73	69.60	0.00	099.88	100.48	101.14	101.33
9	26.10	0.00	099.57	099.24	24.30	0.00	098.36	100.79	70.60	0.00	099.73	100.77	101.30	101.42
10	29.70	0.00	100.01	099.55	31.20	0.00	098.48	101.69	69.40	0.00	099.88	101.01	101.63	101.57
11	29.30	0.00	100.43	100.11	29.30	0.00	098.51	100.76	70.40	0.00	100.44	100.72	101.48	101.69
12	29.20	0.00	100.31	100.32	29.00	0.00	097.97	101.31	68.30	0.00	100.44	100.59	101.45	101.70
13	30.80	0.00	099.95	102.38	29.20	0.00	098.17	100.96	68.60	0.00	100.60	100.51	101.72	102.05
14	29.20	0.00	099.81	100.58	30.80	0.00	098.16	100.81	68.20	0.00	100.76	100.37	102.15	102.36
15	29.30	0.00	100.54	100.75	30.70	0.00	097.89	100.56	67.90	0.00	100.66	100.80	102.19	102.53
16	29.60	0.00	100.26	100.72	29.20	0.00	097.82	101.04	68.70	0.00	100.82	100.88	102.35	102.68
17	29.60	0.00	099.79	100.70	29.70	0.00	097.73	101.19	68.80	0.00	100.81	100.79	102.55	102.86
18	29.60	0.00	099.93	100.35	30.70	0.00	099.14	100.35	69.10	0.00	101.29	101.08	102.34	103.03
19	28.00	0.00	100.36	099.53	30.80	0.00	099.24	100.13	71.00	0.00	101.72	101.37	101.98	103.05
20	26.40	0.00	100.35	098.81	26.40	0.00	098.47	100.55	71.70	0.00	101.98	102.31	101.54	102.80
21	26.80	0.00	100.07	098.92	26.20	0.00	097.77	099.72	72.90	0.00	101.85	101.88	101.25	102.67
22	27.70	0.00	099.26	098.81	27.70	0.00	097.63	100.09	67.50	0.00	101.94	102.11	101.08	102.65
23	20.40	0.00	098.11	098.38	26.20	0.00	097.68	099.35	67.80	0.00	101.33	101.64	101.42	102.40
24	21.50	0.00	098.46	097.89	25.60	0.00	097.34	099.33	64.60	0.00	100.48	101.14	101.18	102.40

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DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	
1	9.90	0.00	098.73	099.38	099.76	100.59	26.60	0.00	100.94	099.24	32.10	0.00	098.62	097.80	
2	9.90	0.00	098.73	099.08	099.66	100.36	17.60	0.00	100.94	099.37	26.90	0.00	098.65	097.67	
3	9.90	0.00	098.71	098.98	099.65	099.96	12.90	0.00	100.69	099.10	14.40	0.00	098.70	097.60	
4	9.90	0.00	098.81	098.85	099.54	099.87	12.80	0.00	100.59	098.99	13.30	0.00	098.73	097.76	
5	10.10	0.00	098.85	098.88	099.56	099.68	13.00	0.00	100.32	098.98	13.80	0.00	098.73	097.61	
6	9.90	0.00	098.54	098.97	099.50	099.42	12.90	0.00	100.44	098.85	15.40	0.00	098.75	097.61	
7	9.90	0.00	098.62	099.39	099.70	099.27	18.60	0.00	100.44	099.24	20.30	0.00	098.67	097.69	
8	10.00	0.00	098.77	099.99	099.80	099.35	18.80	0.00	099.74	099.42	16.90	0.00	098.65	097.74	
9	10.10	0.00	098.89	100.51	100.46	099.77	26.70	0.00	099.88	099.87	20.80	0.00	098.69	097.86	
10	9.90	0.00	098.94	102.06	101.37	100.44	29.40	0.00	100.03	100.03	26.50	0.00	098.70	098.16	
11	9.90	0.00	099.38	103.06	102.20	101.43	29.90	0.00	100.20	100.32	28.40	0.00	098.70	098.40	
12	9.90	0.00	099.59	103.12	102.67	102.46	29.30	0.00	100.77	100.26	29.60	0.00	098.91	098.49	
13	10.00	0.00	099.50	102.82	102.91	102.73	29.10	0.00	101.10	100.42	31.30	0.00	099.11	098.78	
14	10.10	0.00	099.21	101.83	103.21	103.02	28.90	0.00	101.02	100.46	30.40	0.00	099.49	098.93	
15	9.90	0.00	099.20	101.76	102.90	103.12	29.00	0.00	101.01	100.31	34.70	0.00	099.49	099.02	
16	9.90	0.00	099.08	101.92	102.38	103.02	32.70	0.00	100.77	100.11	33.50	0.00	099.38	099.09	
17	9.90	0.00	099.10	101.86	101.97	102.80	31.60	0.00	100.65	100.12	31.90	0.00	099.38	099.09	
18	9.90	0.00	098.95	101.73	101.33	102.60	27.20	0.00	099.70	099.85	27.80	0.00	099.52	098.97	
19	10.10	0.00	099.10	101.46	101.05	102.33	28.50	0.00	100.53	099.69	27.50	0.00	099.57	098.90	
20	9.90	0.00	098.91	100.70	100.67	101.95	28.50	0.00	100.12	099.73	25.30	0.00	099.42	098.62	
21	9.90	0.00	099.00	100.35	100.38	101.63	26.70	0.00	099.61	099.76	24.60	0.00	099.64	098.67	
22	9.90	0.00	099.00	099.96	100.26	101.24	19.50	0.00	100.49	099.95	24.60	0.00	099.60	098.41	
23	9.90	0.00	099.10	099.74	100.18	101.03	16.20	0.00	100.62	099.53	17.30	0.00	099.68	098.31	
24	9.90	0.00	099.25	099.78	100.04	100.82	13.30	0.00	100.50	099.43	13.10	0.00	099.72	098.37	
LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT	
1	34.20	0.00	099.05	097.80	36.20	0.00	097.65	098.65	82.90	0.00	102.04	102.23	101.54	102.19	
2	27.20	0.00	099.21	097.92	30.00	0.00	097.67	098.79	83.90	0.00	101.51	101.95	101.44	102.19	
3	17.00	0.00	099.12	097.95	13.90	0.00	097.60	098.72	66.90	0.00	101.81	101.60	101.63	102.14	
4	14.30	0.00	099.34	098.12	10.10	0.00	097.48	098.74	64.80	0.00	101.67	101.37	101.51	102.16	
5	14.30	0.00	099.20	098.32	9.90	0.00	097.32	098.62	60.90	0.00	101.56	101.92	101.37	101.90	
6	15.50	0.00	099.08	098.28	11.50	0.00	096.79	098.50	73.60	0.00	101.43	101.76	101.37	101.51	
7	20.40	0.00	099.06	098.28	14.20	0.00	095.98	098.76	71.70	0.00	101.24	101.56	101.49	101.30	
8	19.10	0.00	099.09	098.71	13.30	0.00	095.86	100.88	67.90	0.00	101.47	101.37	101.74	100.92	
9	21.90	0.00	098.80	099.32	20.50	0.00	096.91	100.80	72.50	0.00	101.62	101.23	102.21	100.93	
10	30.70	0.00	099.21	099.61	25.10	0.00	097.50	102.02	65.20	0.00	101.54	101.39	102.59	101.37	
11	30.30	0.00	099.63	100.20	28.10	0.00	098.40	101.24	61.80	0.00	101.54	101.58	102.34	101.75	
12	33.50	0.00	099.28	100.39	33.20	0.00	098.57	100.52	61.80	0.00	101.71	101.62	102.26	102.07	
13	31.90	0.00	099.06	101.15	35.00	0.00	098.51	100.79	62.00	0.00	101.84	101.51	102.26	102.30	
14	31.60	0.00	099.76	100.36	37.70	0.00	098.67	100.59	61.90	0.00	102.12	101.25	102.30	102.52	
15	35.60	0.00	099.50	100.27	40.30	0.00	098.97	099.99	62.00	0.00	101.98	101.67	102.18	102.58	
16	35.10	0.00	099.14	099.88	38.40	0.00	098.81	100.03	61.10	0.00	101.92	102.25	102.07	102.63	
17	34.90	0.00	099.16	099.73	38.30	0.00	098.31	099.91	61.30	0.00	101.82	101.88	101.97	102.65	
18	36.40	0.00	099.45	100.28	38.10	0.00	098.08	099.77	77.40	0.00	101.77	101.94	102.08	102.67	
19	30.50	0.00	099.85	099.33	33.90	0.00	097.96	099.49	78.80	0.00	101.77	101.82	101.83	102.67	
20	26.40	0.00	099.71	099.08	29.60	0.00	098.01	099.41	78.60	0.00	101.67	102.00	101.76	102.74	
21	26.70	0.00	100.15	098.95	26.00	0.00	098.82	099.60	79.40	0.00	101.70	101.92	101.53	102.77	
22	26.20	0.00	100.16	098.79	26.80	0.00	098.86	100.03	78.40	0.00	101.57	101.89	101.81	102.69	
23	16.90	0.00	100.20	098.66	24.90	0.00	098.78	099.37	71.30	0.00	101.60	101.59	101.57	102.53	
24	14.10	0.00	100.08	098.58	13.30	0.00	098.54	099.44	63.40	0.00	101.52	101.57	101.49	102.53	

28 JUL 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

28 JUL 2001

	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	10.10	0.00	099.07	100.83	100.44	101.35	17.70	0.00	101.88	099.91	17.40	0.00	098.96	097.99
2	9.90	0.00	099.06	100.67	100.26	100.92	18.20	0.00	102.40	099.73	18.10	0.00	098.91	097.79
3	9.90	0.00	099.14	100.60	100.08	100.46	13.40	0.00	101.52	099.93	14.80	0.00	098.98	097.72
4	9.90	0.00	099.24	100.42	100.04	099.99	13.00	0.00	100.86	099.39	16.30	0.00	098.99	097.72
5	9.90	0.00	099.20	100.24	099.96	099.73	13.00	0.00	101.08	099.38	15.20	0.00	098.85	097.59
6	10.10	0.00	099.18	100.23	099.93	099.50	12.90	0.00	101.09	099.37	16.00	0.00	098.77	097.59
7	9.90	0.00	099.10	100.39	100.29	099.43	13.20	0.00	101.33	099.52	12.80	0.00	098.85	097.42
8	9.90	0.00	099.23	100.87	100.75	099.95	14.40	0.00	101.29	099.65	12.60	0.00	098.67	097.51
9	9.90	0.00	099.50	101.63	101.74	100.35	28.50	0.00	101.37	100.00	12.90	0.00	098.55	097.29
10	10.10	0.00	099.63	101.46	102.35	100.73	29.10	0.00	101.59	099.97	21.90	0.00	098.57	097.74
11	9.90	0.00	099.46	102.28	102.16	100.81	32.90	0.00	101.32	101.70	30.50	0.00	098.63	098.15
12	9.90	0.00	099.21	102.70	102.04	100.96	33.70	0.00	101.05	101.21	29.10	0.00	098.55	098.13
13	9.90	0.00	099.53	104.81	102.85	101.39	32.40	0.00	101.36	101.22	28.90	0.00	098.58	098.14
14	9.90	0.00	099.69	104.69	103.52	102.32	32.10	0.00	101.35	100.52	30.40	0.00	098.67	098.30
15	10.10	0.00	100.01	105.83	103.73	103.15	32.10	0.00	101.41	100.43	28.90	0.00	098.67	098.56
16	9.90	0.00	100.04	106.02	103.95	103.57	32.20	0.00	101.04	100.34	34.80	0.00	098.70	098.58
17	9.90	0.00	100.05	105.68	104.06	104.02	32.20	0.00	101.60	100.42	35.80	0.00	098.72	098.60
18	9.90	0.00	099.82	103.77	103.57	104.00	32.80	0.00	101.83	100.20	35.60	0.00	098.70	098.45
19	10.10	0.00	100.05	102.74	102.85	103.57	32.20	0.00	101.58	099.93	36.20	0.00	098.83	098.42
20	9.90	0.00	099.17	101.99	101.82	102.99	33.00	0.00	101.49	099.62	36.50	0.00	098.71	098.26
21	9.90	0.00	098.98	101.12	101.02	102.25	40.20	0.00	101.28	099.44	40.20	0.00	098.61	098.13
22	9.90	0.00	098.73	100.57	100.56	101.68	40.30	0.00	100.71	099.41	39.60	0.00	098.53	097.98
23	9.90	0.00	098.70	100.19	100.35	101.30	40.30	0.00	100.28	099.34	39.60	0.00	098.49	097.92
24	10.10	0.00	098.56	099.62	099.95	100.83	34.10	0.00	100.31	099.60	34.50	0.00	098.63	097.81
	LOWER MONUMENTAL			ICE HARBOR				MCNARY				PASCO		
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	16.80	0.00	100.26	098.30	13.40	0.00	097.26	098.69	72.30	0.00	104.05	103.17	102.41	105.46
2	14.20	0.00	099.30	098.18	12.50	0.00	097.24	099.19	99.60	0.00	104.32	103.26	102.40	105.06
3	14.40	0.00	098.71	098.21	12.50	0.00	097.11	098.79	87.80	0.00	104.69	103.27	102.36	104.74
4	16.00	0.00	098.58	098.17	14.00	0.00	096.96	098.20	92.00	0.00	104.97	103.10	102.32	104.31
5	14.40	0.00	098.98	098.13	12.50	0.00	096.65	098.47	75.80	0.00	103.45	103.65	102.15	104.03
6	16.20	0.00	099.22	097.97	12.70	0.00	096.77	098.81	78.50	0.00	102.96	103.84	101.99	103.71
7	17.70	0.00	099.21	098.05	12.40	0.00	096.69	098.79	71.30	0.00	102.48	103.60	101.88	103.27
8	17.40	0.00	098.85	098.12	13.90	0.00	096.91	098.98	69.20	0.00	103.95	103.24	101.87	102.82
9	17.20	0.00	099.26	098.67	12.50	0.00	097.16	099.79	73.20	0.00	103.06	103.76	101.84	102.58
10	15.40	0.00	098.59	100.20	12.70	0.00	096.93	099.65	73.90	0.00	103.01	104.28	101.96	102.56
11	21.10	0.00	098.34	100.48	12.80	0.00	096.79	099.76	74.20	0.00	103.01	104.37	102.09	102.55
12	28.00	0.00	098.20	100.36	13.00	0.00	096.73	101.35	73.40	0.00	103.39	103.57	102.45	102.68
13	27.80	0.00	098.20	100.12	21.60	0.00	096.72	100.49	72.20	0.00	104.10	102.96	102.75	102.95
14	28.50	0.00	098.20	099.71	25.20	0.00	096.55	100.51	72.00	0.00	103.85	102.83	102.50	103.08
15	30.60	0.00	098.63	099.80	31.10	0.00	096.27	100.12	70.90	0.00	103.87	102.46	102.55	103.39
16	35.30	0.00	098.23	099.14	34.80	0.00	096.58	100.05	71.90	0.00	103.85	103.11	102.12	103.49
17	39.70	0.00	098.12	098.58	38.60	0.00	096.52	098.92	87.20	0.00	103.54	102.38	101.81	103.51
18	39.50	0.00	098.47	098.01	40.80	0.00	096.58	098.72	80.10	0.00	103.26	102.36	101.57	103.44
19	39.50	0.00	098.33	097.97	43.00	0.00	096.91	098.70	87.60	0.00	103.14	102.23	101.56	103.56
20	40.40	0.00	098.82	097.77	42.50	0.00	097.63	098.50	89.20	0.00	103.01	102.46	101.52	103.27
21	40.40	0.00	098.82	097.68	43.90	0.00	097.84	098.30	90.30	0.00	102.49	102.40	101.63	102.93
22	40.20	0.00	099.21	097.55	42.40	0.00	097.80	098.42	87.60	0.00	102.48	101.96	101.72	102.92
23	40.30	0.00	099.24	097.71	42.30	0.00	097.77	098.91	85.00	0.00	102.42	101.92	101.57	102.60
24	35.90	0.00	099.16	097.77	36.90	0.00	097.75	098.61	82.00	0.00	102.17	101.95	101.56	102.60

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WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

27 JUL 2001

	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.
1	9.90	0.00	098.94	100.53	100.26	101.34	18.00	0.00	103.13	099.88	17.80	0.00	102.57	098.16
2	10.10	0.00	098.90	100.37	100.14	100.90	17.80	0.00	104.06	100.13	18.70	0.00	102.51	097.91
3	9.90	0.00	099.00	100.35	099.96	100.47	17.30	0.00	103.44	099.92	17.10	0.00	102.32	097.78
4	9.90	0.00	098.95	100.33	099.95	100.03	13.10	0.00	101.90	099.60	13.90	0.00	101.88	097.55
5	9.90	0.00	099.09	100.27	099.93	099.69	12.90	0.00	101.05	099.68	13.50	0.00	101.45	097.42
6	9.90	0.00	098.86	100.11	099.97	099.35	13.00	0.00	100.59	099.66	13.50	0.00	101.42	097.22
7	10.10	0.00	099.00	100.14	100.23	099.33	14.00	0.00	101.52	099.76	13.70	0.00	100.59	097.19
8	9.90	0.00	099.12	100.66	100.83	099.83	26.50	0.00	102.95	100.56	21.90	0.00	100.46	097.35
9	9.90	0.00	099.28	101.40	101.74	100.52	33.70	0.00	103.54	100.98	29.00	0.00	100.50	097.91
10	9.90	0.00	099.48	102.40	101.85	101.41	32.10	0.00	103.87	101.28	32.70	0.00	100.21	098.33
11	10.10	0.00	099.58	103.83	103.47	102.43	32.40	0.00	104.70	101.46	33.10	0.00	100.23	098.50
12	9.90	0.00	099.63	105.56	104.05	103.45	39.30	0.00	105.55	101.80	38.90	0.00	100.48	098.65
13	9.90	0.00	100.04	106.68	103.53	104.37	40.30	0.00	104.41	101.84	38.90	0.00	100.50	098.85
14	9.90	0.00	100.26	107.69	104.93	105.12	39.70	0.00	103.93	101.66	40.20	0.00	100.46	099.04
15	9.90	0.00	100.34	108.17	105.23	105.72	39.80	0.00	104.40	101.72	40.20	0.00	100.57	099.02
16	10.10	0.00	100.38	108.23	105.46	106.18	40.00	0.00	104.12	101.67	38.80	0.00	100.61	099.09
17	9.90	0.00	100.27	107.61	105.18	106.20	39.80	0.00	103.73	101.43	39.00	0.00	100.35	099.13
18	9.90	0.00	100.01	105.33	104.74	106.18	39.80	0.00	103.40	101.35	39.00	0.00	100.28	099.06
19	9.90	0.00	100.27	104.06	103.72	105.77	40.50	0.00	102.61	101.12	39.70	0.00	100.35	098.92
20	10.10	0.00	099.43	103.23	102.60	104.84	39.80	0.00	101.49	100.70	39.00	0.00	100.08	098.78
21	9.90	0.00	099.37	102.39	101.83	103.92	30.30	0.00	101.61	100.66	38.80	0.00	099.92	098.64
22	9.90	0.00	099.17	101.78	101.28	103.08	29.70	0.00	101.85	100.49	31.70	0.00	099.50	098.47
23	9.90	0.00	099.03	101.33	100.93	102.54	31.50	0.00	103.39	100.44	30.60	0.00	099.39	098.40
24	9.90	0.00	099.14	101.12	100.66	101.92	29.40	0.00	102.77	100.24	30.70	0.00	099.21	098.22
	LOWER MONUMENTAL			ICE HARBOR			MCNARY			PASCO				
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT
1	18.10	0.00	101.32	098.96	28.00	0.00	102.93	099.81	80.30	0.00	108.05	105.89	103.94	105.93
2	16.60	0.00	101.29	098.78	22.30	0.00	102.75	099.77	71.60	0.00	107.14	105.33	103.89	105.75
3	16.90	0.00	101.77	098.68	19.80	0.00	102.03	099.61	64.30	0.00	107.35	105.56	103.99	105.55
4	13.90	0.00	101.46	098.63	12.90	0.00	099.75	099.27	69.60	0.00	104.91	106.04	103.64	105.49
5	13.80	0.00	101.18	098.45	12.80	0.00	098.51	099.35	86.30	0.00	107.41	106.78	103.48	105.19
6	15.50	0.00	100.56	098.23	13.00	0.00	097.67	099.47	99.90	0.00	107.47	105.93	103.28	105.04
7	14.00	0.00	100.42	098.77	13.10	0.00	097.51	098.81	95.90	0.00	106.65	105.93	103.54	104.86
8	17.90	0.00	100.16	099.05	13.00	0.00	097.65	099.43	96.30	0.00	105.97	107.11	103.63	104.53
9	21.60	0.00	100.58	099.64	14.90	0.00	097.99	099.91	93.80	0.00	105.73	105.79	103.76	104.41
10	33.70	0.00	100.44	099.84	22.80	0.00	099.07	100.71	92.50	0.00	107.06	106.86	103.96	104.21
11	34.60	0.00	100.47	100.76	34.70	0.00	098.72	101.08	92.40	0.00	107.46	107.34	104.27	104.20
12	39.30	0.00	099.84	100.11	39.10	0.00	099.13	101.43	97.70	0.00	108.09	104.84	104.32	104.55
13	39.40	0.00	100.05	100.32	41.10	0.00	099.41	101.49	92.60	0.00	108.01	105.49	104.39	104.98
14	39.20	0.00	100.24	100.71	39.50	0.00	099.69	100.65	92.10	0.00	107.94	105.68	104.47	105.37
15	40.80	0.00	100.75	100.29	41.60	0.00	099.21	101.46	91.70	0.00	107.76	105.85	104.54	105.82
16	40.20	0.00	100.26	100.21	39.50	0.00	099.42	100.51	92.00	0.00	107.16	105.27	104.76	106.01
17	41.00	0.00	099.61	100.04	39.50	0.00	099.10	100.56	91.40	0.00	105.41	105.49	104.98	106.41
18	39.10	0.00	099.42	100.09	39.60	0.00	099.36	100.32	90.90	0.00	103.67	105.85	104.77	107.37
19	38.90	0.00	099.49	099.74	40.80	0.00	099.21	100.09	88.10	0.00	103.24	104.95	104.41	107.49
20	39.30	0.00	099.62	099.22	42.50	0.00	099.22	099.76	91.00	0.00	106.96	103.97	104.21	107.03
21	39.80	0.00	099.46	098.86	41.30	0.00	099.00	099.33	92.30	0.00	106.48	103.68	103.30	106.91
22	38.80	0.00	099.38	098.70	42.10	0.00	098.65	099.35	91.90	0.00	106.19	103.45	103.10	106.15
23	30.20	0.00	099.95	098.47	40.90	0.00	098.15	098.87	91.40	0.00	105.60	102.72	102.63	105.93
24	29.50	0.00	100.28	098.51	30.50	0.00	097.82	098.72	91.40	0.00	105.57	102.68	102.46	105.93

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WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

26 JUL 2001

HOUR	DWRSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
	TOTAL DISCH. KCFS	SPILL KCFS	GAS TAILW.	%SAT	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.
1	9.90	0.00	099.16		100.68	100.49	101.53	17.70	0.00	102.38	099.12	16.10	0.00	101.67	097.72
2	9.90	0.00	099.08		100.67	100.35	100.94	17.20	0.00	102.74	099.10	16.40	0.00	101.67	097.73
3	10.00	0.00	099.17		100.67	100.19	100.54	16.90	0.00	102.17	098.98	14.90	0.00	101.48	097.43
4	9.90	0.00	099.16		100.68	100.12	100.07	17.70	0.00	101.85	098.60	15.10	0.00	101.17	097.39
5	9.90	0.00	099.13		100.58	099.88	099.74	27.70	0.00	101.90	099.21	25.00	0.00	101.11	097.47
6	9.90	0.00	099.05		100.35	100.07	099.45	33.50	0.00	102.04	099.18	26.40	0.00	101.05	097.53
7	9.90	0.00	099.19		100.64	100.30	099.39	34.30	0.00	102.14	099.30	30.20	0.00	101.02	097.66
8	10.10	0.00	099.47		101.00	100.94	099.77	36.00	0.00	101.80	099.81	35.90	0.00	101.27	097.78
9	9.90	0.00	099.63		101.74	101.92	100.61	39.70	0.00	101.70	100.23	41.40	0.00	101.97	098.23
10	9.90	0.00	099.82		102.70	102.02	101.47	41.30	0.00	102.02	100.39	43.40	0.00	102.01	098.49
11	9.90	0.00	100.01		104.01	103.66	102.32	41.30	0.00	102.59	100.43	41.90	0.00	101.53	098.93
12	10.10	0.00	100.20		105.13	104.40	103.33	39.70	0.00	102.90	100.86	42.80	0.00	101.26	098.93
13	9.90	0.00	100.44		106.14	103.97	104.23	40.20	0.00	103.22	100.94	43.50	0.00	101.56	099.13
14	9.90	0.00	100.61		106.90	105.23	105.06	37.70	0.00	102.85	101.36	40.60	0.00	101.38	099.32
15	9.90	0.00	100.64		107.50	105.60	105.66	38.00	0.00	103.98	101.28	39.90	0.00	101.72	099.24
16	9.90	0.00	100.65		107.71	105.80	105.96	33.80	0.00	104.45	101.21	38.50	0.00	102.27	099.32
17	10.10	0.00	100.69		107.16	105.40	106.12	33.50	0.00	104.86	101.09	39.10	0.00	102.21	099.34
18	9.90	0.00	100.42		104.88	104.70	106.03	33.40	0.00	103.84	100.96	34.40	0.00	102.60	099.22
19	9.90	0.00	100.69		103.89	103.57	105.63	33.30	0.00	104.14	101.55	34.60	0.00	102.77	099.23
20	9.90	0.00	099.74		103.09	102.61	104.83	33.00	0.00	104.67	100.88	35.80	0.00	102.37	099.11
21	10.10	0.00	099.10		102.49	101.82	103.93	35.00	0.00	104.61	100.82	34.10	0.00	101.90	098.93
22	9.90	0.00	099.03		101.74	101.15	103.07	32.90	0.00	104.42	100.48	34.00	0.00	101.62	098.74
23	9.90	0.00	098.99		101.14	100.80	102.48	32.80	0.00	104.54	100.47	34.50	0.00	102.10	098.58
24	9.90	0.00	098.94		100.82	100.46	101.90	27.70	0.00	103.96	100.35	27.40	0.00	102.78	098.28
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT	
1	31.20	0.00	102.08	099.02	30.80	0.00	101.62	099.69	76.60	0.00	107.65	107.01	103.36	106.48	
2	16.10	0.00	101.73	098.97	29.90	0.00	101.35	099.93	81.90	0.00	105.48	107.50	103.32	106.42	
3	13.80	0.00	101.18	098.94	13.50	0.00	100.25	099.63	68.90	0.00	106.80	107.65	103.16	106.29	
4	13.70	0.00	101.27	098.73	12.90	0.00	099.52	099.47	72.00	0.00	105.32	109.62	103.21	106.11	
5	13.60	0.00	101.76	099.35	14.40	0.00	099.21	099.43	87.60	0.00	106.43	109.54	103.04	105.92	
6	13.90	0.00	101.73	098.31	13.00	0.00	099.45	099.39	80.70	0.00	107.04	108.54	103.26	105.61	
7	26.70	0.00	100.88	098.41	13.80	0.00	100.59	099.51	82.50	0.00	106.58	107.71	103.32	105.44	
8	27.30	0.00	100.74	099.09	22.70	0.00	101.80	100.13	82.60	0.00	106.70	107.02	103.28	105.14	
9	40.40	0.00	102.49	099.71	29.60	0.00	102.47	101.36	81.60	0.00	106.98	106.89	103.44	105.03	
10	42.30	0.00	100.87	100.59	38.90	0.00	103.42	101.80	79.00	0.00	108.01	105.47	103.62	104.92	
11	41.90	0.00	100.91	100.51	39.40	0.00	103.03	101.84	80.60	0.00	108.47	105.80	103.82	104.96	
12	41.50	0.00	101.05	100.32	41.00	0.00	103.70	101.85	78.80	0.00	108.37	105.58	103.98	105.14	
13	40.70	0.00	101.15	100.79	39.60	0.00	102.19	101.91	78.60	0.00	108.94	105.98	104.27	105.28	
14	41.40	0.00	101.94	100.82	39.80	0.00	100.73	102.79	78.60	0.00	109.38	106.70	?UNDEF	105.47	
15	40.40	0.00	102.61	100.82	39.70	0.00	099.49	102.00	79.50	0.00	109.49	106.11	?UNDEF	105.84	
16	41.90	0.00	102.48	102.76	40.50	0.00	100.09	101.82	81.70	0.00	108.46	106.99	?UNDEF	106.13	
17	40.60	0.00	102.15	100.66	39.90	0.00	100.24	101.70	87.90	0.00	108.18	108.50	?UNDEF	106.31	
18	40.70	0.00	101.22	100.48	40.00	0.00	101.10	101.59	87.30	0.00	106.30	108.66	104.60	106.51	
19	42.20	0.00	101.10	100.87	40.20	0.00	102.32	101.36	92.20	0.00	108.09	109.00	104.77	106.66	
20	40.10	0.00	101.24	099.73	40.30	0.00	105.66	100.75	94.00	0.00	108.64	106.85	104.46	106.65	
21	42.10	0.00	101.08	099.68	40.20	0.00	104.88	100.60	106.00	0.00	110.19	105.71	104.11	106.49	
22	39.30	0.00	102.12	099.29	41.70	0.00	102.11	100.44	110.20	0.00	109.97	107.11	103.92	106.30	
23	39.00	0.00	101.68	099.22	41.20	0.00	100.87	100.27	100.40	0.00	109.14	106.95	104.04	106.04	
24	37.90	0.00	101.24	099.21	40.10	0.00	101.42	100.37	94.10	0.00	108.14	106.74	103.98	106.04	

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WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

25 JUL 2001

HOUR	DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	
1	9.80	0.00	099.29	100.76	100.67	101.58	28.10	0.00	100.89	099.30	24.90	0.00	097.66	097.47		
2	9.90	0.00	099.14	100.73	100.56	101.15	15.40	0.00	100.42	098.83	15.70	0.00	096.93	097.16		
3	9.90	0.00	099.12	100.69	100.35	100.70	13.90	0.00	101.09	098.65	13.90	0.00	097.13	097.23		
4	10.00	0.00	099.09	100.71	100.29	100.26	14.10	0.00	101.17	098.72	14.10	0.00	097.64	097.09		
5	9.90	0.00	099.01	100.46	100.08	099.93	15.50	0.00	101.12	099.35	13.80	0.00	098.08	097.16		
6	9.90	0.00	098.95	100.39	100.20	099.58	26.20	0.00	100.62	099.29	15.60	0.00	097.51	097.51		
7	9.90	0.00	099.05	100.52	100.41	099.54	26.30	0.00	100.19	099.10	24.90	0.00	097.22	097.63		
8	10.10	0.00	099.19	100.90	100.98	099.91	27.80	0.00	100.08	099.92	27.20	0.00	097.76	097.99		
9	9.90	0.00	099.31	101.72	101.80	100.59	30.10	0.00	099.95	099.77	29.70	0.00	098.03	098.28		
10	9.90	0.00	099.66	102.81	101.99	101.37	30.80	0.00	100.34	099.80	30.20	0.00	098.27	098.54		
11	9.90	0.00	099.81	104.04	103.51	102.38	25.10	0.00	101.29	099.89	29.00	0.00	098.44	098.84		
12	9.90	0.00	099.85	105.50	104.25	103.37	35.80	0.00	100.38	100.09	39.20	0.00	099.19	099.00		
13	10.00	0.00	100.05	106.33	103.97	104.28	40.00	0.00	100.84	100.56	39.40	0.00	099.38	099.18		
14	9.90	0.00	100.11	106.96	105.12	105.04	40.50	0.00	101.05	100.48	41.50	0.00	099.72	099.37		
15	9.90	0.00	100.31	107.58	105.21	105.71	40.00	0.00	101.94	100.30	38.80	0.00	100.19	099.57		
16	9.90	0.00	100.35	107.63	105.44	106.04	40.30	0.00	101.99	100.38	39.10	0.00	101.32	099.41		
17	9.80	0.00	100.26	107.43	105.26	106.23	42.60	0.00	102.70	100.31	43.50	0.00	101.24	099.06		
18	10.00	0.00	099.99	104.98	104.64	106.17	42.70	0.00	102.08	100.01	43.90	0.00	101.27	098.85		
19	9.90	0.00	100.26	103.92	103.65	105.75	35.80	0.00	101.41	100.07	41.60	0.00	101.31	098.59		
20	9.90	0.00	099.47	103.04	102.61	104.95	37.80	0.00	101.15	099.65	42.50	0.00	101.28	098.43		
21	9.90	0.00	099.26	102.18	101.94	104.08	34.90	0.00	100.16	100.04	43.10	0.00	101.22	098.23		
22	10.00	0.00	099.22	101.59	101.49	103.26	34.60	0.00	100.53	099.58	37.40	0.00	101.21	098.22		
23	9.90	0.00	099.06	101.14	101.01	102.50	34.60	0.00	102.26	099.41	30.30	0.00	101.20	097.95		
24	9.90	0.00	099.02	100.98	100.68	101.96	33.80	0.00	102.78	099.41	31.00	0.00	101.44	097.92		
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT		
1	34.60	0.00	098.27	097.68	34.10	0.00	101.55	099.25	77.10	0.00	104.95	105.10	102.60	105.86		
2	27.20	0.00	098.36	097.49	26.90	0.00	101.79	099.21	60.40	0.00	104.72	105.33	102.53	105.33		
3	14.90	0.00	098.30	096.62	13.20	0.00	099.76	099.15	78.40	0.00	104.13	107.50	102.36	105.39		
4	14.10	0.00	098.39	096.83	13.00	0.00	097.98	099.12	63.20	0.00	102.87	108.13	102.32	105.32		
5	13.90	0.00	098.24	097.30	12.80	0.00	097.14	098.83	93.20	0.00	103.52	107.57	102.40	105.28		
6	13.90	0.00	098.31	097.05	12.80	0.00	096.85	098.64	88.80	0.00	103.77	106.42	102.30	105.12		
7	14.50	0.00	098.70	097.23	12.80	0.00	098.28	099.83	89.50	0.00	103.82	106.93	102.29	104.93		
8	26.70	0.00	099.01	098.00	14.10	0.00	099.07	099.68	86.40	0.00	105.65	106.49	102.39	104.81		
9	28.60	0.00	098.81	098.32	28.40	0.00	099.68	100.13	82.50	0.00	105.25	106.08	102.90	104.65		
10	30.50	0.00	098.39	099.27	31.00	0.00	099.44	101.35	94.00	0.00	104.72	106.63	103.48	104.63		
11	31.20	0.00	098.65	099.49	30.30	0.00	098.79	100.12	84.10	0.00	105.44	104.32	103.65	104.69		
12	38.80	0.00	098.89	099.72	39.40	0.00	098.32	101.23	86.10	0.00	105.74	105.69	103.87	104.85		
13	39.40	0.00	101.55	099.95	41.60	0.00	098.92	100.75	84.70	0.00	104.50	106.72	103.92	105.17		
14	39.20	0.00	102.60	100.74	41.40	0.00	098.17	101.26	89.90	0.00	105.25	107.22	104.13	105.52		
15	40.90	0.00	103.50	100.86	40.00	0.00	099.96	100.65	91.70	0.00	105.66	105.78	104.22	105.87		
16	38.70	0.00	101.03	101.45	40.20	0.00	099.91	100.69	88.90	0.00	106.01	106.13	104.26	105.96		
17	42.90	0.00	102.14	100.17	44.90	0.00	103.68	100.71	80.80	0.00	107.24	107.11	104.19	106.39		
18	44.70	0.00	101.52	100.64	43.70	0.00	105.07	100.48	80.30	0.00	108.11	107.31	104.27	106.53		
19	45.30	0.00	100.82	100.43	44.50	0.00	104.27	100.60	79.90	0.00	108.03	108.01	104.14	106.46		
20	43.60	0.00	101.61	099.53	43.90	0.00	105.40	100.32	76.70	0.00	106.57	108.41	104.00	106.70		
21	43.20	0.00	100.39	099.37	43.70	0.00	105.77	100.33	77.40	0.00	104.94	108.25	103.87	107.27		
22	43.10	0.00	102.51	099.20	43.60	0.00	107.02	100.03	82.30	0.00	108.51	108.10	103.74	106.95		
23	42.80	0.00	100.77	099.16	43.80	0.00	107.57	099.92	80.60	0.00	108.79	107.91	103.40	106.70		
24	42.00	0.00	102.15	099.10	44.70	0.00	106.92	099.88	78.30	0.00	107.92	107.32	103.24	106.70		

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WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

24 JUL 2001

	DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	
1	10.00	0.00	099.17	101.44	101.09	101.76	14.30	0.00	104.61	100.04	13.70	0.00	100.61	099.22	
2	9.90	0.00	099.13	101.41	100.90	101.19	14.30	0.00	104.45	099.38	13.20	0.00	099.77	099.06	
3	9.80	0.00	099.27	101.25	100.80	100.76	14.30	0.00	104.12	099.04	13.50	0.00	099.04	098.62	
4	9.80	0.00	099.28	101.11	100.59	100.46	14.80	0.00	103.46	099.02	15.30	0.00	098.91	098.60	
5	9.80	0.00	099.25	101.07	100.61	100.03	18.10	0.00	102.77	099.38	15.40	0.00	099.31	098.58	
6	10.00	0.00	099.21	100.92	100.61	099.76	29.70	0.00	102.59	100.01	18.20	0.00	098.41	098.50	
7	9.90	0.00	099.33	101.00	100.52	099.69	35.60	0.00	103.91	100.00	31.40	0.00	099.09	098.79	
8	9.90	0.00	099.50	101.33	100.97	100.24	40.00	0.00	105.16	100.85	40.30	0.00	098.94	099.99	
9	9.80	0.00	099.66	102.02	101.94	100.93	41.30	0.00	104.48	100.39	41.80	0.00	098.25	099.56	
10	9.80	0.00	099.85	102.91	102.32	101.77	42.70	0.00	101.20	100.40	41.90	0.00	098.52	099.00	
11	9.80	0.00	099.90	104.08	103.58	102.62	40.30	0.00	100.97	100.28	38.80	0.00	098.70	099.17	
12	9.80	0.00	100.25	105.08	104.04	103.65	39.60	0.00	100.31	100.43	39.40	0.00	098.28	099.18	
13	9.90	0.00	100.38	106.09	104.19	104.47	37.90	0.00	100.08	100.46	38.40	0.00	097.92	099.10	
14	10.00	0.00	100.41	106.51	104.90	105.28	33.40	0.00	099.72	100.40	38.60	0.00	097.76	099.15	
15	9.90	0.00	100.44	107.24	105.36	105.88	32.40	0.00	099.35	100.46	38.50	0.00	097.58	099.05	
16	9.90	0.00	100.48	107.24	105.44	106.21	33.40	0.00	099.26	100.30	38.40	0.00	097.37	098.95	
17	9.90	0.00	100.34	106.86	105.79	106.27	32.90	0.00	099.55	100.23	39.10	0.00	097.40	098.62	
18	10.00	0.00	100.11	104.87	104.79	106.27	36.20	0.00	099.34	100.96	38.90	0.00	097.20	098.36	
19	9.80	0.00	100.34	103.84	103.79	105.83	36.20	0.00	099.89	100.28	36.50	0.00	097.33	098.25	
20	9.90	0.00	099.66	103.15	102.79	104.96	36.30	0.00	099.59	099.84	36.10	0.00	097.57	098.21	
21	9.90	0.00	099.31	102.27	102.02	104.14	36.30	0.00	099.53	099.82	37.60	0.00	097.82	098.17	
22	9.80	0.00	099.26	101.62	101.52	103.27	37.00	0.00	099.89	099.53	36.00	0.00	098.46	098.00	
23	10.00	0.00	099.21	101.20	101.17	102.55	35.90	0.00	100.57	099.50	36.80	0.00	097.99	097.71	
24	9.90	0.00	099.33	101.06	100.85	101.99	27.00	0.00	100.51	099.22	34.30	0.00	097.94	097.67	
	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT	
1	20.30	0.00	100.30	097.69	21.30	0.00	099.30	099.81	55.50	0.00	104.30	104.76	103.02	107.81	
2	13.90	0.00	100.27	097.39	20.00	0.00	099.71	099.51	56.50	0.00	104.26	104.99	103.31	107.75	
3	14.00	0.00	099.26	097.19	12.70	0.00	098.61	100.13	57.80	0.00	104.10	105.21	102.98	107.60	
4	13.80	0.00	099.01	097.16	11.60	0.00	099.25	099.59	59.30	0.00	103.95	104.89	102.83	107.30	
5	14.30	0.00	098.71	097.28	14.20	0.00	098.88	098.91	62.70	0.00	105.24	104.36	102.36	107.02	
6	14.50	0.00	098.28	097.01	12.90	0.00	097.82	098.72	78.90	0.00	105.69	104.84	102.34	106.69	
7	28.20	0.00	098.20	097.58	12.90	0.00	096.86	099.25	106.40	0.00	106.99	104.51	102.55	106.24	
8	33.80	0.00	098.23	097.96	23.60	0.00	097.37	100.51	107.10	0.00	103.21	104.01	102.93	106.13	
9	44.40	0.00	098.50	098.30	37.20	0.00	097.24	100.48	114.10	0.00	103.51	103.86	103.06	105.98	
10	40.60	0.00	098.35	098.60	42.20	0.00	098.69	099.68	120.10	0.00	104.75	103.73	103.24	105.95	
11	49.20	0.00	098.77	099.33	45.40	0.00	100.31	099.52	118.70	0.00	105.56	103.89	103.09	105.96	
12	47.70	0.00	098.91	099.25	48.60	0.00	101.15	099.80	117.90	0.00	104.63	104.18	102.99	106.26	
13	42.70	0.00	098.95	099.45	45.70	0.00	100.68	100.41	107.40	0.00	104.67	104.77	103.32	106.49	
14	42.00	0.00	098.98	100.04	45.60	0.00	103.26	100.09	104.80	0.00	104.32	103.77	103.63	106.67	
15	40.50	0.00	099.19	099.70	43.60	0.00	104.09	099.83	101.20	0.00	104.35	103.77	103.79	106.99	
16	40.50	0.00	099.45	099.61	43.30	0.00	104.46	100.01	103.50	0.00	105.40	104.26	104.16	106.99	
17	36.40	0.00	099.14	099.83	41.80	0.00	098.87	100.05	115.10	0.00	107.74	103.60	104.03	107.20	
18	35.50	0.00	099.29	099.85	38.10	0.00	097.96	100.19	117.40	0.00	103.41	103.67	103.82	107.39	
19	35.40	0.00	099.45	099.34	35.30	0.00	099.58	100.21	106.70	0.00	105.17	103.85	103.43	107.37	
20	35.60	0.00	098.61	098.76	37.20	0.00	099.04	099.88	101.40	0.00	107.56	104.21	103.29	107.09	
21	37.10	0.00	098.56	098.08	35.00	0.00	098.66	099.52	95.10	0.00	103.65	104.17	103.11	106.86	
22	38.00	0.00	098.79	097.87	34.90	0.00	098.50	099.49	105.40	0.00	102.81	104.79	102.93	106.53	
23	41.90	0.00	098.60	097.79	35.00	0.00	098.57	099.29	103.90	0.00	102.53	104.74	103.00	106.37	
24	36.80	0.00	098.29	098.30	34.50	0.00	099.72	099.27	84.40	0.00	104.95	104.67	102.71	106.37	

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	DWRSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	
1	10.00	0.00	099.16	100.30	100.82	101.25	14.00	0.00	105.98	098.32	13.20	0.00	098.30	097.89	
2	9.80	0.00	099.01	100.00	100.60	100.82	15.00	0.00	105.82	098.19	13.90	0.00	098.26	097.85	
3	9.80	0.00	099.09	099.96	100.42	100.39	15.70	0.00	106.21	098.00	14.60	0.00	098.44	097.59	
4	9.80	0.00	099.08	099.85	100.37	100.09	17.40	0.00	104.87	098.24	16.50	0.00	098.22	097.83	
5	9.80	0.00	099.02	099.76	100.27	099.69	18.80	0.00	104.01	098.73	14.80	0.00	097.91	097.61	
6	10.00	0.00	099.00	099.73	100.23	099.50	24.90	0.00	105.15	099.22	25.60	0.00	098.22	098.13	
7	9.80	0.00	099.09	099.70	100.28	099.45	26.70	0.00	104.29	099.17	25.40	0.00	098.07	098.05	
8	9.90	0.00	099.38	100.28	100.58	099.83	26.80	0.00	103.20	099.14	25.30	0.00	098.60	098.20	
9	9.80	0.00	099.55	100.80	101.41	100.64	26.80	0.00	104.15	099.17	25.70	0.00	098.66	098.21	
10	9.80	0.00	099.46	101.87	101.77	101.49	26.90	0.00	104.22	001.48	25.40	0.00	099.08	098.40	
11	10.00	0.00	099.57	102.82	103.41	102.38	27.40	0.00	102.41	099.54	25.90	0.00	099.83	099.00	
12	9.80	0.00	099.76	103.99	103.93	103.43	30.10	0.00	105.41	099.60	29.70	0.00	100.28	099.29	
13	9.80	0.00	099.95	105.11	103.94	104.26	30.30	0.00	103.73	099.93	29.90	0.00	100.76	099.80	
14	9.80	0.00	100.14	106.30	104.75	105.16	30.20	0.00	104.04	100.34	30.00	0.00	100.82	099.75	
15	10.00	0.00	100.23	106.99	105.06	105.67	32.00	0.00	104.90	100.12	31.80	0.00	100.26	099.81	
16	9.90	0.00	100.27	107.26	105.11	106.13	30.90	0.00	105.16	100.71	29.80	0.00	099.95	100.00	
17	9.80	0.00	100.16	106.95	105.01	106.16	32.00	0.00	106.41	100.24	31.30	0.00	099.58	100.09	
18	9.80	0.00	099.93	105.03	104.57	106.07	30.40	0.00	104.03	100.39	29.90	0.00	099.72	100.00	
19	9.80	0.00	100.16	104.11	103.85	105.70	30.30	0.00	104.08	100.18	30.10	0.00	099.88	100.03	
20	10.00	0.00	099.56	103.46	102.85	105.04	32.10	0.00	104.68	099.64	32.40	0.00	101.41	099.76	
21	9.90	0.00	099.28	102.75	102.17	104.08	35.00	0.00	107.48	099.68	34.30	0.00	101.17	099.48	
22	9.80	0.00	099.21	102.18	101.66	103.41	35.60	0.00	106.05	099.64	35.80	0.00	100.73	099.48	
23	9.80	0.00	099.07	101.93	101.42	102.70	27.70	0.00	106.37	099.62	33.60	0.00	100.30	099.46	
24	9.80	0.00	099.17	101.58	101.23	102.12	16.70	0.00	103.90	100.54	28.60	0.00	100.27	099.49	
	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT	
1	15.30	0.00	100.68	097.13	12.70	0.00	099.13	099.60	58.50	0.00	103.22	102.63	101.72	106.34	
2	13.90	0.00	100.39	096.96	11.60	0.00	098.71	099.41	61.00	0.00	103.61	102.35	101.83	106.12	
3	14.00	0.00	099.16	097.21	11.70	0.00	098.40	099.24	62.20	0.00	102.64	102.21	101.79	106.24	
4	14.70	0.00	099.18	097.17	11.70	0.00	098.39	098.99	65.60	0.00	102.92	102.05	101.65	106.39	
5	14.20	0.00	099.12	096.99	11.70	0.00	097.15	099.19	62.40	0.00	103.01	101.98	101.59	106.17	
6	21.00	0.00	099.05	097.02	14.30	0.00	097.59	099.42	74.20	0.00	102.91	102.96	101.49	106.01	
7	21.80	0.00	098.62	097.10	18.80	0.00	098.99	099.64	68.60	0.00	102.87	104.39	101.59	105.79	
8	26.00	0.00	098.60	097.38	20.50	0.00	098.71	100.11	73.70	0.00	102.74	105.19	101.85	105.75	
9	26.80	0.00	098.49	098.15	28.10	0.00	099.03	101.58	73.00	0.00	102.87	104.23	102.11	105.77	
10	30.30	0.00	098.54	098.63	29.10	0.00	099.83	100.72	82.50	0.00	103.17	102.95	102.43	106.34	
11	28.80	0.00	098.44	099.67	27.60	0.00	099.57	100.53	84.70	0.00	103.85	102.32	102.62	106.53	
12	28.70	0.00	098.49	099.59	28.90	0.00	100.84	101.66	87.20	0.00	103.92	102.54	102.71	106.85	
13	30.30	0.00	100.05	099.99	29.40	0.00	103.04	101.74	86.20	0.00	103.70	102.79	102.90	106.96	
14	29.30	0.00	100.64	099.71	30.00	0.00	102.45	101.44	85.20	0.00	103.43	103.25	103.13	107.05	
15	28.60	0.00	100.76	099.83	34.30	0.00	100.43	101.65	83.70	0.00	103.63	104.02	103.49	107.44	
16	28.00	0.00	100.83	100.17	35.50	0.00	099.31	101.60	101.40	0.00	103.83	105.40	103.59	107.49	
17	28.60	0.00	100.98	100.07	35.50	0.00	102.57	101.68	106.60	0.00	103.01	106.15	103.73	107.51	
18	28.90	0.00	100.99	099.58	36.30	0.00	102.34	101.50	105.70	0.00	101.69	106.32	103.59	107.91	
19	28.80	0.00	100.91	099.07	29.70	0.00	101.34	101.15	100.60	0.00	102.96	106.25	103.50	107.79	
20	31.70	0.00	100.97	098.13	29.50	0.00	100.87	101.34	98.60	0.00	103.52	106.68	103.26	108.13	
21	34.40	0.00	100.56	097.99	34.00	0.00	100.87	100.24	106.70	0.00	104.81	107.52	103.27	108.16	
22	36.50	0.00	100.54	097.99	34.30	0.00	100.47	100.11	106.40	0.00	103.64	107.36	103.07	108.12	
23	35.80	0.00	100.40	097.88	34.00	0.00	100.71	099.99	71.40	0.00	102.17	104.91	102.94	108.10	
24	31.90	0.00	099.35	097.83	31.00	0.00	100.17	099.85	79.90	0.00	103.21	105.39	103.07	108.10	

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DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.
1	9.60	0.00	099.09	100.33	100.82	101.33	16.70	0.00	102.87	098.18	15.00	0.00	097.88	098.17
2	10.00	0.00	099.08	100.04	100.60	100.89	16.30	0.00	103.56	098.04	15.10	0.00	098.12	097.82
3	9.80	0.00	099.20	099.89	100.45	100.48	16.30	0.00	102.96	097.96	14.70	0.00	097.96	097.83
4	9.80	0.00	099.31	099.77	100.42	100.07	16.40	0.00	103.46	097.93	14.80	0.00	097.92	097.62
5	9.80	0.00	099.12	099.53	100.29	099.62	16.60	0.00	103.68	098.28	14.60	0.00	097.86	097.71
6	9.80	0.00	099.19	099.38	100.27	099.41	19.10	0.00	103.61	098.35	14.80	0.00	097.80	097.37
7	10.00	0.00	099.17	099.62	100.23	099.22	27.20	0.00	103.44	098.85	20.60	0.00	097.80	097.62
8	9.80	0.00	099.15	100.18	100.52	099.76	26.90	0.00	102.88	098.85	21.00	0.00	097.50	098.04
9	9.80	0.00	099.26	100.91	101.25	100.44	30.00	0.00	103.97	098.85	29.30	0.00	097.51	098.41
10	9.80	0.00	099.44	102.23	101.48	101.24	30.20	0.00	103.89	099.26	31.30	0.00	097.92	098.69
11	9.80	0.00	099.77	103.21	103.14	102.19	29.40	0.00	102.89	099.40	29.50	0.00	097.94	098.96
12	10.00	0.00	099.81	104.32	104.05	103.19	29.50	0.00	103.08	099.41	30.10	0.00	098.50	099.00
13	9.80	0.00	100.00	104.79	103.82	104.08	30.70	0.00	104.32	099.62	30.20	0.00	098.81	099.06
14	9.80	0.00	100.07	105.29	104.89	104.82	30.20	0.00	104.30	099.44	30.30	0.00	098.79	099.14
15	9.80	0.00	100.12	106.36	104.95	105.33	30.30	0.00	104.61	099.61	34.20	0.00	098.99	099.18
16	10.00	0.00	100.20	106.17	104.98	105.90	30.30	0.00	104.67	099.69	34.30	0.00	099.22	099.42
17	9.80	0.00	099.93	105.63	104.72	105.94	30.20	0.00	105.25	099.58	33.30	0.00	099.21	099.44
18	9.80	0.00	099.81	104.78	104.19	105.68	32.60	0.00	105.26	099.62	33.10	0.00	099.23	099.30
19	9.80	0.00	099.93	103.79	103.23	105.01	32.00	0.00	105.95	099.48	29.70	0.00	098.64	099.05
20	9.80	0.00	099.36	102.98	102.54	104.43	31.90	0.00	104.86	099.21	29.50	0.00	098.52	098.77
21	10.00	0.00	099.29	102.13	101.91	103.57	30.40	0.00	105.63	098.99	29.50	0.00	098.50	098.58
22	9.80	0.00	099.23	101.49	101.66	102.84	30.20	0.00	107.41	098.79	29.40	0.00	098.56	098.37
23	9.80	0.00	099.21	101.09	101.22	102.26	25.30	0.00	106.74	098.64	29.00	0.00	098.66	098.35
24	9.80	0.00	098.93	100.65	101.01	101.72	14.40	0.00	106.70	098.35	13.20	0.00	098.48	098.29
LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT
1	14.40	0.00	099.20	097.10	21.90	0.00	098.80	100.45	66.40	0.00	102.60	100.80	101.14	104.00
2	13.70	0.00	099.24	097.25	11.70	0.00	098.91	100.03	64.40	0.00	102.71	100.78	100.93	103.86
3	13.70	0.00	099.02	097.42	11.70	0.00	098.76	099.88	81.50	0.00	102.85	100.37	101.06	103.83
4	13.60	0.00	098.86	097.09	11.50	0.00	098.19	099.72	72.60	0.00	102.67	100.35	101.02	103.65
5	13.50	0.00	098.67	097.28	11.20	0.00	097.45	099.69	65.60	0.00	102.35	100.28	100.81	103.63
6	13.70	0.00	098.33	097.23	12.60	0.00	097.93	099.76	65.00	0.00	102.17	100.11	100.78	103.43
7	13.70	0.00	098.47	097.59	11.00	0.00	098.21	100.29	63.60	0.00	102.16	100.36	100.90	103.28
8	14.00	0.00	098.45	098.14	12.90	0.00	098.26	100.61	63.10	0.00	101.99	100.85	101.12	103.22
9	19.90	0.00	098.56	098.71	13.10	0.00	098.14	100.82	66.60	0.00	102.93	101.10	101.37	103.34
10	29.20	0.00	098.69	099.17	22.50	0.00	097.90	102.41	67.30	0.00	103.30	101.14	101.84	103.64
11	31.20	0.00	098.68	099.81	29.70	0.00	098.14	102.57	67.80	0.00	102.44	100.89	102.12	103.94
12	31.00	0.00	098.89	099.65	30.20	0.00	098.56	102.45	68.90	0.00	102.89	100.97	102.44	104.21
13	31.70	0.00	098.92	100.12	30.30	0.00	098.63	100.77	73.50	0.00	102.90	100.85	102.59	104.41
14	34.70	0.00	098.85	099.97	34.70	0.00	098.53	101.00	73.80	0.00	102.87	102.27	?UNDEF	104.61
15	36.70	0.00	099.05	099.96	36.50	0.00	098.48	100.76	73.90	0.00	103.33	102.62	?UNDEF	104.99
16	35.30	0.00	099.13	100.04	35.00	0.00	099.23	100.72	74.10	0.00	101.93	103.26	?UNDEF	105.05
17	35.20	0.00	099.18	099.84	35.20	0.00	099.16	100.84	74.30	0.00	101.48	103.72	?UNDEF	105.09
18	35.10	0.00	099.49	099.75	40.40	0.00	099.56	100.45	73.90	0.00	102.69	103.45	103.08	105.35
19	32.20	0.00	099.73	099.38	35.20	0.00	099.61	100.21	73.60	0.00	102.81	102.93	102.82	105.22
20	31.30	0.00	099.72	098.77	33.10	0.00	099.69	100.05	73.90	0.00	103.65	102.89	102.66	105.73
21	31.30	0.00	099.77	098.38	31.50	0.00	100.45	099.97	74.30	0.00	104.33	102.85	102.50	106.24
22	31.30	0.00	100.67	098.25	31.40	0.00	100.01	099.92	74.20	0.00	102.83	102.78	102.18	106.85
23	30.70	0.00	101.30	097.96	31.30	0.00	099.44	100.33	73.50	0.00	103.07	103.18	101.99	106.84
24	26.30	0.00	100.59	097.90	23.90	0.00	099.85	099.77	64.40	0.00	102.67	102.98	101.92	106.84

21 JUL 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

21 JUL 2001

	DWORSHAK			:	STREAMFLOW			:	LOWER GRANITE			:	LITTLE GOOSE				
HOUR :	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	:	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1 :	9.80	0.00	099.24	:	100.12	100.68	100.80	:	14.50	0.00	100.93	098.08	:	14.30	0.00	096.84	097.75
2 :	9.80	0.00	099.12	:	100.04	100.37	100.55	:	14.10	0.00	100.88	097.93	:	13.20	0.00	097.00	097.44
3 :	9.80	0.00	099.80	:	100.22	100.65	100.22	:	13.80	0.00	100.46	097.77	:	13.10	0.00	097.10	097.37
4 :	9.80	0.00	099.55	:	100.19	100.61	099.82	:	13.80	0.00	099.39	097.77	:	14.50	0.00	096.61	097.60
5 :	10.00	0.00	099.51	:	100.18	100.69	099.53	:	13.90	0.00	100.04	097.61	:	13.10	0.00	097.11	097.50
6 :	9.80	0.00	099.42	:	100.12	100.56	099.31	:	13.70	0.00	099.29	097.94	:	13.00	0.00	096.80	097.55
7 :	9.80	0.00	099.40	:	099.89	100.65	099.29	:	14.30	0.00	099.12	098.04	:	13.20	0.00	096.83	097.37
8 :	9.80	0.00	099.65	:	099.89	100.92	099.49	:	25.60	0.00	099.34	098.55	:	21.10	0.00	096.94	097.77
9 :	10.00	0.00	099.20	:	100.42	101.48	099.77	:	29.20	0.00	099.74	098.67	:	26.40	0.00	097.47	098.26
10 :	9.80	0.00	099.23	:	101.36	101.93	100.42	:	33.30	0.00	101.21	098.64	:	37.60	0.00	097.65	098.41
11 :	9.80	0.00	099.78	:	103.16	102.48	101.24	:	34.80	0.00	101.37	099.09	:	37.40	0.00	097.79	098.58
12 :	9.80	0.00	099.81	:	104.60	103.56	102.21	:	34.80	0.00	102.76	099.29	:	37.40	0.00	098.12	098.76
13 :	9.80	0.00	100.00	:	105.58	103.83	103.33	:	35.50	0.00	103.89	099.33	:	39.00	0.00	098.32	098.74
14 :	10.00	0.00	100.10	:	106.21	104.70	104.38	:	35.00	0.00	104.34	099.19	:	37.40	0.00	098.19	098.82
15 :	9.80	0.00	100.01	:	106.67	105.11	104.95	:	36.70	0.00	104.57	099.43	:	37.00	0.00	098.50	098.91
16 :	9.80	0.00	100.18	:	106.73	105.20	105.53	:	35.20	0.00	105.17	099.46	:	34.80	0.00	098.57	098.93
17 :	9.80	0.00	100.20	:	106.35	104.95	105.70	:	35.40	0.00	106.28	099.50	:	34.70	0.00	098.86	098.97
18 :	9.80	0.00	099.89	:	105.13	104.38	105.50	:	35.60	0.00	106.01	099.69	:	34.80	0.00	098.60	098.95
19 :	10.00	0.00	100.20	:	104.18	103.63	105.21	:	36.40	0.00	105.06	099.54	:	34.80	0.00	098.35	098.73
20 :	9.80	0.00	099.70	:	103.32	102.86	104.57	:	37.60	0.00	103.96	099.12	:	39.80	0.00	098.87	098.83
21 :	9.80	0.00	099.23	:	102.47	102.32	103.63	:	35.90	0.00	103.25	099.10	:	41.10	0.00	098.68	098.51
22 :	9.80	0.00	099.18	:	101.74	101.62	102.96	:	35.30	0.00	103.78	099.06	:	40.30	0.00	098.80	098.35
23 :	10.00	0.00	099.13	:	101.13	101.21	102.33	:	18.50	0.00	103.74	098.37	:	30.30	0.00	098.62	098.18
24 :	9.80	0.00	099.25	:	100.66	101.01	101.74	:	16.30	0.00	103.14	098.17	:	17.00	0.00	098.19	098.29

	LOWER MONUMENTAL			:	ICE HARBOR			:	MCNARY			:	PASCO				
HOUR :	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT. TAILW.	:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT. TAILW.	:	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	:	GAS % SAT		
1 :	14.10	0.00	098.51 096.75	:	11.50	0.00	097.13 099.61	:	65.60	0.00	102.78	100.17	100.60	:	104.82		
2 :	13.90	0.00	098.44 096.78	:	10.20	0.00	096.61 099.37	:	54.20	0.00	102.52	100.15	100.52	:	104.38		
3 :	13.90	0.00	098.43 096.66	:	10.30	0.00	096.11 099.11	:	55.50	0.00	102.79	099.96	100.49	:	104.14		
4 :	14.10	0.00	098.44 096.65	:	9.80	0.00	097.58 099.05	:	57.90	0.00	102.67	099.97	100.50	:	103.71		
5 :	14.00	0.00	098.27 096.62	:	9.90	0.00	097.52 099.07	:	68.80	0.00	102.54	100.11	100.64	:	103.58		
6 :	14.00	0.00	098.26 096.69	:	9.90	0.00	098.26 099.28	:	67.70	0.00	102.24	100.71	100.69	:	103.29		
7 :	14.10	0.00	098.19 096.93	:	9.90	0.00	098.36 099.61	:	64.10	0.00	101.90	101.09	100.79	:	102.93		
8 :	15.70	0.00	098.20 097.45	:	10.00	0.00	098.04 100.01	:	72.50	0.00	101.67	100.93	100.86	:	102.63		
9 :	18.70	0.00	098.31 098.69	:	13.20	0.00	098.31 100.19	:	77.40	0.00	101.91	101.04	101.13	:	102.33		
10 :	28.00	0.00	098.31 098.75	:	21.20	0.00	097.91 101.15	:	86.80	0.00	101.53	101.30	101.40	:	102.19		
11 :	35.60	0.00	098.33 099.33	:	30.80	0.00	098.75 101.43	:	87.30	0.00	102.47	101.04	101.48	:	102.22		
12 :	39.50	0.00	098.39 099.29	:	39.00	0.00	099.19 100.87	:	91.00	0.00	102.26	100.84	101.54	:	102.55		
13 :	39.70	0.00	098.54 099.06	:	41.00	0.00	099.20 100.91	:	91.20	0.00	102.40	100.61	101.56	:	102.82		
14 :	39.70	0.00	098.55 099.71	:	39.40	0.00	098.85 100.90	:	91.20	0.00	102.71	100.52	101.62	:	103.15		
15 :	39.80	0.00	098.62 099.36	:	41.10	0.00	098.48 100.87	:	95.80	0.00	102.39	100.84	101.82	:	103.48		
16 :	39.70	0.00	098.81 099.28	:	39.70	0.00	098.52 100.67	:	97.00	0.00	103.34	101.43	101.99	:	103.66		
17 :	39.70	0.00	098.70 099.05	:	39.50	0.00	098.82 100.84	:	98.70	0.00	103.42	101.61	102.05	:	104.12		
18 :	41.90	0.00	099.09 099.48	:	39.40	0.00	099.12 100.71	:	101.80	0.00	102.78	101.83	102.09	:	104.39		
19 :	40.00	0.00	099.14 098.38	:	40.20	0.00	099.01 100.57	:	102.00	0.00	102.87	101.92	101.93	:	104.53		
20 :	42.80	0.00	099.09 098.18	:	43.80	0.00	099.13 100.64	:	101.30	0.00	103.50	101.48	101.65	:	104.51		
21 :	42.90	0.00	099.73 097.86	:	42.50	0.00	099.31 101.00	:	80.10	0.00	102.95	101.57	101.71	:	104.60		
22 :	42.80	0.00	099.34 097.66	:	42.40	0.00	099.71 100.47	:	79.00	0.00	103.58	101.27	101.57	:	104.53		
23 :	42.20	0.00	099.13 097.65	:	43.90	0.00	099.40 100.41	:	69.30	0.00	103.02	100.95	101.53	:	104.37		
24 :	29.20	0.00	099.42 097.58	:	35.20	0.00	099.23 100.23	:	67.50	0.00	102.83	100.88	101.31	:	104.37		

20 JUL 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

20 JUL 2001

	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	10.00	0.00	099.50	100.52	100.98	101.58	15.00	0.00	102.88	098.58	14.60	0.00	097.78	098.28
2	9.80	0.00	099.44	100.31	100.83	101.14	14.30	0.00	102.32	098.57	15.70	0.00	097.04	098.42
3	9.80	0.00	099.46	100.37	100.75	100.72	14.60	0.00	102.19	098.41	14.50	0.00	097.07	098.31
4	9.80	0.00	099.25	100.27	100.61	100.39	14.20	0.00	101.12	098.13	14.20	0.00	097.39	098.15
5	9.80	0.00	099.40	100.23	100.49	100.03	14.20	0.00	100.65	098.31	14.00	0.00	097.75	097.89
6	10.00	0.00	099.35	100.19	100.51	099.72	14.10	0.00	100.59	098.26	14.10	0.00	097.44	097.97
7	9.80	0.00	099.35	100.30	100.61	099.72	14.40	0.00	101.89	098.38	14.30	0.00	097.35	097.99
8	9.80	0.00	099.78	100.86	100.97	100.01	26.80	0.00	102.73	098.81	18.70	0.00	097.19	098.13
9	9.80	0.00	099.88	101.87	101.88	100.54	29.80	0.00	103.01	099.35	22.70	0.00	097.75	098.51
10	9.80	0.00	100.04	102.56	102.35	101.43	31.40	0.00	104.02	099.38	32.80	0.00	098.20	099.10
11	10.00	0.00	100.07	103.57	103.29	102.22	36.20	0.00	105.11	099.69	35.70	0.00	098.20	099.23
12	9.80	0.00	100.46	104.75	103.92	103.29	36.40	0.00	103.98	099.88	36.10	0.00	099.03	099.44
13	9.80	0.00	100.66	105.76	104.18	104.16	42.50	0.00	104.54	100.59	44.00	0.00	099.60	099.56
14	9.80	0.00	100.59	106.51	104.81	105.08	44.70	0.00	106.99	099.97	43.60	0.00	099.77	099.64
15	10.00	0.00	100.82	106.18	105.36	105.73	43.60	0.00	106.94	100.12	42.80	0.00	099.30	099.38
16	9.80	0.00	100.60	105.11	105.41	105.55	40.40	0.00	104.34	099.60	42.50	0.00	098.88	099.21
17	9.80	0.00	100.48	103.39	105.15	104.52	35.20	0.00	102.80	099.30	39.60	0.00	098.53	098.79
18	9.80	0.00	100.34	102.91	103.52	104.05	26.40	0.00	101.54	098.98	31.80	0.00	098.32	098.81
19	10.00	0.00	100.48	102.16	102.87	103.47	26.10	0.00	099.97	098.92	29.80	0.00	098.29	098.64
20	9.80	0.00	100.44	101.49	102.29	103.07	28.10	0.00	100.22	098.64	24.80	0.00	098.26	098.38
21	9.80	0.00	099.20	101.18	101.76	102.60	25.90	0.00	100.01	098.50	24.60	0.00	098.12	098.23
22	9.80	0.00	099.24	100.57	101.39	102.09	27.60	0.00	100.45	098.57	24.30	0.00	097.63	098.15
23	9.80	0.00	099.28	100.29	100.86	101.63	25.80	0.00	101.00	098.57	22.20	0.00	097.43	098.03
24	9.90	0.00	099.03	100.14	100.74	101.19	17.40	0.00	102.94	098.24	20.80	0.00	097.19	097.94
	LOWER MONUMENTAL			ICE HARBOR			MCNARY			PASCO				
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	14.30	0.00	099.10	096.84	12.80	0.00	097.90	100.37	67.00	0.00	102.36	103.84	101.37	105.46
2	13.90	0.00	099.11	096.97	10.10	0.00	098.00	100.17	75.80	0.00	102.65	104.02	101.37	105.31
3	14.20	0.00	099.04	097.16	9.90	0.00	097.25	100.17	64.80	0.00	102.27	104.15	101.38	105.35
4	13.90	0.00	098.84	096.93	11.40	0.00	097.11	099.96	62.00	0.00	101.95	104.01	101.38	105.18
5	14.00	0.00	098.80	097.05	10.00	0.00	098.45	100.37	70.40	0.00	102.73	103.71	101.24	105.15
6	15.50	0.00	098.78	097.31	11.50	0.00	097.90	101.70	82.30	0.00	103.12	103.28	101.14	104.95
7	14.10	0.00	098.68	097.99	9.90	0.00	098.53	100.92	83.50	0.00	103.77	102.72	101.26	104.84
8	18.20	0.00	098.91	097.59	9.90	0.00	098.26	100.91	83.60	0.00	104.13	102.04	101.26	104.71
9	18.70	0.00	098.94	098.27	13.30	0.00	098.90	102.03	84.30	0.00	104.30	102.29	101.67	104.49
10	30.50	0.00	098.98	099.05	22.30	0.00	098.78	101.94	84.00	0.00	104.26	102.35	101.83	104.58
11	35.20	0.00	099.14	099.53	27.90	0.00	099.09	102.17	84.60	0.00	104.75	102.27	101.91	104.31
12	38.80	0.00	099.11	099.41	35.90	0.00	098.51	101.59	84.00	0.00	103.90	102.24	101.99	104.53
13	42.50	0.00	098.99	099.13	42.00	0.00	098.94	101.00	84.40	0.00	102.49	102.02	101.88	104.79
14	43.60	0.00	098.82	098.85	42.20	0.00	098.46	100.59	84.50	0.00	101.82	101.90	101.91	104.76
15	42.90	0.00	098.67	099.20	43.90	0.00	098.07	100.61	83.20	0.00	103.03	101.74	101.78	104.89
16	43.50	0.00	098.82	098.95	43.90	0.00	097.58	100.43	84.50	0.00	104.02	101.43	101.86	104.96
17	42.60	0.00	098.53	098.55	44.00	0.00	097.87	100.43	86.00	0.00	104.29	101.27	101.81	105.24
18	39.00	0.00	098.52	098.23	42.60	0.00	097.97	100.32	88.30	0.00	103.94	100.84	101.81	105.36
19	38.40	0.00	098.63	097.95	42.60	0.00	098.23	100.17	91.40	0.00	103.71	100.59	101.53	105.48
20	30.60	0.00	098.37	097.56	43.80	0.00	098.35	100.05	115.90	0.00	103.42	100.47	101.38	105.72
21	28.60	0.00	098.39	097.53	31.90	0.00	098.33	100.03	119.80	0.00	102.76	100.52	101.24	105.57
22	27.30	0.00	098.33	097.14	29.00	0.00	098.57	099.96	119.20	0.00	102.26	100.61	101.05	105.37
23	21.60	0.00	098.47	096.96	24.60	0.00	098.13	100.23	117.20	0.00	102.41	100.32	100.88	105.21
24	16.80	0.00	098.42	096.80	20.30	0.00	097.73	099.80	70.10	0.00	102.35	100.32	100.76	105.21

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WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

19 JUL 2001

	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	9.70	0.00	098.98	099.66	100.50	101.23	14.70	0.00	101.62	099.01	16.50	0.00	097.72	097.95
2	9.90	0.00	099.13	099.59	100.30	100.80	14.40	0.00	102.01	098.92	15.30	0.00	096.99	097.91
3	9.80	0.00	099.08	099.50	100.35	100.35	14.40	0.00	102.36	098.87	15.00	0.00	096.71	097.63
4	9.80	0.00	099.19	099.65	100.24	100.05	14.80	0.00	101.94	098.74	15.00	0.00	096.57	097.61
5	9.80	0.00	099.20	099.59	100.23	099.81	15.00	0.00	101.63	098.83	15.10	0.00	096.83	097.21
6	9.80	0.00	099.15	099.58	100.24	099.50	15.60	0.00	100.94	099.06	15.10	0.00	096.78	097.18
7	10.00	0.00	099.29	099.69	100.31	099.48	26.90	0.00	101.47	100.13	15.80	0.00	097.32	097.18
8	9.80	0.00	099.46	100.12	100.78	099.89	28.00	0.00	101.91	099.85	27.20	0.00	097.08	097.71
9	9.80	0.00	099.62	101.00	101.65	100.58	30.50	0.00	102.61	100.16	29.80	0.00	096.92	098.13
10	9.80	0.00	099.93	101.99	101.96	101.46	30.80	0.00	102.88	100.31	30.10	0.00	097.05	098.18
11	9.90	0.00	100.01	103.20	103.12	102.45	31.40	0.00	102.53	100.36	31.70	0.00	097.05	098.35
12	9.70	0.00	100.19	104.18	103.87	103.48	34.00	0.00	103.44	100.31	34.80	0.00	097.52	098.53
13	9.80	0.00	100.29	105.16	103.66	104.21	34.80	0.00	104.33	100.63	34.50	0.00	097.96	098.74
14	9.80	0.00	100.34	105.89	104.59	105.01	36.70	0.00	103.97	100.31	36.00	0.00	098.16	098.79
15	9.80	0.00	100.38	106.27	104.82	105.46	35.00	0.00	103.89	100.63	37.30	0.00	098.64	098.85
16	10.00	0.00	100.48	106.05	104.93	105.94	35.00	0.00	104.10	100.55	35.90	0.00	098.69	099.17
17	9.70	0.00	100.23	105.36	105.02	106.10	35.70	0.00	104.42	100.49	38.20	0.00	098.86	099.11
18	9.70	0.00	100.25	104.53	104.59	106.00	35.00	0.00	104.45	100.23	36.00	0.00	098.67	099.27
19	9.70	0.00	100.23	103.64	104.10	105.44	31.90	0.00	104.21	100.16	31.40	0.00	098.41	099.05
20	9.90	0.00	099.73	102.84	103.30	104.75	33.40	0.00	104.61	100.05	31.00	0.00	098.37	098.88
21	9.80	0.00	099.55	102.07	102.54	104.07	33.60	0.00	104.60	099.60	31.20	0.00	098.10	098.50
22	9.80	0.00	099.66	101.36	101.82	103.40	27.80	0.00	104.18	099.18	31.70	0.00	097.82	098.62
23	9.80	0.00	099.48	100.93	101.38	102.75	26.90	0.00	104.15	099.03	30.90	0.00	097.64	098.56
24	9.80	0.00	099.48	100.74	101.24	102.17	26.50	0.00	104.41	099.00	22.40	0.00	097.64	098.42
	LOWER MONUMENTAL			ICE HARBOR			MCNARY			PASCO				
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	14.50	0.00	099.18	097.04	21.00	0.00	098.21	100.29	70.30	0.00	101.17	100.05	100.97	103.83
2	14.50	0.00	099.02	097.09	12.90	0.00	098.33	100.13	69.40	0.00	100.89	100.03	100.81	103.71
3	14.70	0.00	098.97	096.93	13.00	0.00	098.29	099.95	68.10	0.00	101.00	100.04	100.68	103.55
4	16.00	0.00	098.81	097.05	12.70	0.00	098.09	099.99	68.80	0.00	100.68	100.00	100.52	103.44
5	14.50	0.00	098.83	097.29	12.90	0.00	097.26	100.93	70.60	0.00	100.56	099.75	100.50	103.31
6	14.50	0.00	098.65	096.72	12.80	0.00	097.39	100.60	77.70	0.00	100.50	099.68	100.36	103.11
7	14.60	0.00	098.67	096.86	12.80	0.00	097.61	100.37	78.40	0.00	100.53	099.65	100.32	102.95
8	18.50	0.00	098.57	097.32	13.30	0.00	098.03	100.60	81.90	0.00	100.57	099.43	100.45	102.95
9	27.30	0.00	098.61	098.33	27.60	0.00	098.53	100.68	86.20	0.00	100.44	099.40	100.75	102.99
10	30.20	0.00	098.49	098.79	27.50	0.00	098.20	101.44	86.50	0.00	100.92	099.61	101.06	103.16
11	30.80	0.00	098.53	099.00	31.70	0.00	097.96	101.19	86.30	0.00	101.21	099.95	101.42	103.38
12	34.90	0.00	098.42	099.04	31.60	0.00	097.34	101.07	85.80	0.00	101.53	100.77	101.72	103.82
13	36.70	0.00	098.60	099.38	31.70	0.00	098.70	101.09	84.00	0.00	101.56	100.84	101.67	104.11
14	35.70	0.00	098.67	099.32	36.90	0.00	098.92	101.38	83.50	0.00	102.27	100.77	102.27	104.33
15	36.60	0.00	098.56	099.53	36.90	0.00	098.30	101.48	83.00	0.00	103.91	100.57	102.31	104.52
16	38.00	0.00	098.75	098.99	37.00	0.00	097.94	101.19	83.20	0.00	105.10	100.67	102.54	104.72
17	38.20	0.00	098.67	098.44	36.20	0.00	097.59	101.12	83.20	0.00	106.11	101.28	102.52	105.06
18	39.30	0.00	098.87	098.70	39.20	0.00	098.20	101.03	81.00	0.00	104.44	101.19	102.56	105.22
19	36.40	0.00	099.04	098.33	39.50	0.00	098.89	100.84	76.50	0.00	103.67	101.20	102.45	105.35
20	38.50	0.00	099.31	098.17	41.40	0.00	099.02	100.60	81.30	0.00	103.94	101.59	102.28	105.52
21	40.10	0.00	099.30	098.75	41.50	0.00	102.12	100.58	82.30	0.00	103.37	101.74	102.04	105.66
22	39.20	0.00	099.53	097.64	42.80	0.00	100.50	100.58	81.80	0.00	102.47	102.68	101.80	105.64
23	37.90	0.00	099.23	097.57	41.60	0.00	099.49	100.36	81.30	0.00	102.24	103.35	101.68	105.42
24	22.10	0.00	099.19	097.12	29.80	0.00	098.81	101.00	69.00	0.00	102.33	103.58	101.38	105.42

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WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

18 JUL 2001

	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR:	TOTAL DISCH. KCFS	SPIILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPIILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPIILL KCFS	GAS FB	%SAT. TAILW.
1	9.80	0.00	099.02	098.81	100.39	101.02	15.70	0.00	102.48	099.62	15.00	0.00	097.76	098.29
2	9.70	0.00	099.17	098.69	100.27	100.61	14.30	0.00	102.29	099.45	14.80	0.00	098.02	098.26
3	9.90	0.00	099.15	098.60	100.24	100.16	14.50	0.00	101.88	099.19	14.70	0.00	097.87	098.08
4	9.80	0.00	099.11	098.56	100.19	099.85	14.10	0.00	101.56	099.28	14.70	0.00	097.68	098.06
5	9.80	0.00	098.93	098.66	100.01	099.43	15.20	0.00	100.91	100.11	15.00	0.00	097.52	097.90
6	9.80	0.00	098.90	098.63	099.93	099.23	14.30	0.00	100.55	099.46	14.60	0.00	097.52	097.86
7	9.80	0.00	099.01	098.77	100.19	099.37	19.10	0.00	100.28	099.75	14.70	0.00	097.48	097.85
8	9.90	0.00	099.13	099.13	100.45	099.74	27.80	0.00	100.54	100.24	18.50	0.00	097.58	098.09
9	9.80	0.00	099.16	099.95	101.36	100.36	29.40	0.00	100.79	100.40	29.40	0.00	097.99	098.48
10	9.80	0.00	099.32	100.31	101.41	101.34	29.50	0.00	101.95	100.48	30.60	0.00	097.91	098.65
11	9.80	0.00	099.54	101.54	102.75	102.23	29.60	0.00	102.64	100.58	30.20	0.00	097.68	098.72
12	9.90	0.00	099.66	102.70	103.37	103.19	32.80	0.00	102.65	100.79	30.20	0.00	097.52	098.69
13	9.80	0.00	099.73	103.70	103.14	104.19	33.00	0.00	102.32	100.81	33.50	0.00	097.72	098.76
14	9.80	0.00	099.80	104.58	103.73	104.94	33.70	0.00	102.44	100.75	34.00	0.00	097.91	098.93
15	9.70	0.00	099.81	103.80	103.69	104.93	34.80	0.00	102.24	100.77	35.30	0.00	098.23	099.10
16	9.70	0.00	099.74	103.30	104.09	105.51	33.20	0.00	102.10	100.75	34.30	0.00	098.13	099.32
17	9.90	0.00	099.74	103.04	103.91	105.38	33.20	0.00	102.05	100.56	33.70	0.00	098.31	099.05
18	9.70	0.00	099.63	102.65	103.58	105.19	33.10	0.00	101.85	100.48	35.40	0.00	098.56	098.97
19	9.80	0.00	099.74	102.02	103.05	104.77	33.50	0.00	102.64	100.48	35.30	0.00	098.20	098.85
20	9.80	0.00	099.24	101.47	102.33	104.23	29.80	0.00	102.64	099.96	34.00	0.00	098.33	098.87
21	10.00	0.00	099.18	100.87	101.85	103.44	28.90	0.00	104.26	099.80	30.50	0.00	098.05	098.59
22	9.70	0.00	099.17	100.26	101.20	102.76	25.70	0.00	103.80	099.93	29.30	0.00	097.64	098.13
23	9.80	0.00	099.12	100.03	100.88	102.18	14.80	0.00	103.64	099.35	19.90	0.00	097.32	097.97
24	9.80	0.00	099.14	099.82	100.60	101.62	14.40	0.00	101.86	099.35	15.20	0.00	098.04	097.95
	LOWER MONUMENTAL			ICE HARBOR			MCNARY			PASCO				
HOUR:	TOTAL DISCH KCFS	SPIILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPIILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPIILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	15.40	0.00	099.63	098.11	13.00	0.00	099.19	101.25	57.30	0.00	101.67	100.97	101.22	101.99
2	14.60	0.00	099.61	097.71	14.30	0.00	098.52	100.44	50.90	0.00	101.54	100.96	101.20	102.15
3	15.80	0.00	099.56	097.76	12.80	0.00	098.63	100.16	52.90	0.00	101.23	101.22	101.20	102.23
4	14.10	0.00	099.56	098.63	12.80	0.00	098.45	100.13	62.10	0.00	101.51	101.58	101.04	102.07
5	14.40	0.00	099.51	097.31	12.80	0.00	098.33	100.37	84.60	0.00	101.31	101.01	100.86	101.78
6	14.30	0.00	099.34	097.26	12.90	0.00	097.64	100.39	89.50	0.00	101.22	100.60	101.41	101.53
7	14.10	0.00	099.32	097.37	13.50	0.00	097.96	101.42	121.50	0.00	101.14	100.68	101.36	101.35
8	15.60	0.00	099.34	097.89	21.90	0.00	098.72	100.65	122.90	0.00	101.17	100.56	101.76	101.30
9	27.00	0.00	099.21	098.39	21.10	0.00	098.86	101.02	127.30	0.00	101.05	100.68	101.89	101.30
10	32.30	0.00	099.21	098.80	30.40	0.00	098.74	101.99	129.30	0.00	101.60	100.97	101.74	101.47
11	31.10	0.00	099.24	099.41	32.40	0.00	098.12	101.34	128.80	0.00	101.63	101.04	101.81	101.76
12	33.10	0.00	099.22	100.64	32.40	0.00	098.42	101.37	108.00	0.00	101.64	100.90	102.12	102.36
13	31.20	0.00	099.32	100.73	31.00	0.00	098.20	101.94	106.80	0.00	102.79	101.00	102.18	102.76
14	32.60	0.00	099.34	100.13	30.90	0.00	098.25	102.45	108.20	0.00	102.68	100.88	102.36	103.10
15	36.00	0.00	099.41	100.49	33.00	0.00	097.76	101.81	106.20	0.00	102.59	100.96	102.15	103.54
16	36.10	0.00	099.42	100.03	31.10	0.00	097.69	101.40	106.40	0.00	102.68	100.86	102.07	104.28
17	34.60	0.00	099.24	099.55	33.40	0.00	098.01	101.63	105.80	0.00	103.02	100.51	102.15	104.47
18	34.60	0.00	099.36	099.48	33.30	0.00	098.60	101.20	104.80	0.00	102.99	100.55	101.88	104.51
19	35.10	0.00	099.01	098.77	33.50	0.00	098.49	100.96	105.10	0.00	103.03	100.84	101.78	104.66
20	34.50	0.00	099.15	098.21	34.20	0.00	098.85	100.83	105.10	0.00	102.77	100.53	101.79	104.67
21	34.50	0.00	099.14	098.03	35.10	0.00	098.36	100.71	105.40	0.00	102.35	100.39	101.66	104.67
22	34.10	0.00	099.22	097.78	34.30	0.00	098.84	100.52	104.50	0.00	102.01	100.47	101.03	104.46
23	28.10	0.00	099.54	097.66	33.90	0.00	098.91	100.43	97.50	0.00	101.74	100.48	100.89	104.26
24	15.30	0.00	099.33	097.04	21.10	0.00	097.97	100.29	89.10	0.00	101.47	100.16	100.74	104.26

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WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

17 JUL 2001

	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	9.70	0.00	100.30	099.16	100.74	100.91	18.60	0.00	104.86	100.01	14.50	0.00	098.43	097.86
2	9.70	0.00	100.12	098.84	100.78	100.50	16.90	0.00	104.89	100.00	14.50	0.00	098.27	097.83
3	9.80	0.00	100.23	098.84	100.57	100.18	16.90	0.00	104.56	099.54	14.60	0.00	097.96	097.64
4	9.90	0.00	100.30	098.64	100.50	099.92	17.00	0.00	104.23	099.65	14.40	0.00	097.38	097.35
5	9.70	0.00	100.18	098.57	100.53	099.55	17.50	0.00	103.37	099.58	14.40	0.00	097.33	097.28
6	9.80	0.00	100.23	098.53	100.45	099.37	19.00	0.00	102.95	100.00	17.10	0.00	097.02	097.27
7	9.80	0.00	100.19	098.75	100.61	099.45	28.60	0.00	102.82	101.05	20.00	0.00	097.01	097.49
8	9.70	0.00	100.27	099.47	100.92	099.65	30.80	0.00	102.48	100.70	31.30	0.00	097.36	098.14
9	9.90	0.00	100.23	100.37	101.48	100.43	32.60	0.00	102.57	100.43	31.60	0.00	097.37	098.12
10	9.70	0.00	100.23	101.59	102.00	100.96	31.10	0.00	102.73	100.79	33.10	0.00	097.53	098.29
11	9.70	0.00	100.26	102.66	103.16	101.22	31.70	0.00	103.04	100.82	32.90	0.00	097.75	098.41
12	9.70	0.00	100.49	103.20	103.76	101.94	31.20	0.00	103.68	100.77	34.20	0.00	098.06	098.57
13	9.90	0.00	100.11	103.51	103.89	102.49	31.20	0.00	104.02	100.90	34.80	0.00	098.20	098.44
14	9.80	0.00	100.39	104.43	104.00	103.19	31.20	0.00	103.89	100.89	35.80	0.00	097.69	098.73
15	9.80	0.00	100.03	104.40	104.12	104.16	35.70	0.00	103.52	100.97	37.30	0.00	098.00	098.93
16	9.70	0.00	100.19	104.79	104.10	104.60	33.70	0.00	102.62	101.10	37.70	0.00	098.28	099.08
17	9.70	0.00	099.93	104.40	104.28	104.77	35.30	0.00	103.02	100.75	37.70	0.00	098.59	098.97
18	9.90	0.00	099.77	102.65	103.69	104.52	33.80	0.00	102.66	101.08	38.00	0.00	098.66	098.83
19	9.70	0.00	099.93	101.45	102.88	104.23	36.20	0.00	102.12	100.75	38.50	0.00	098.67	098.73
20	9.70	0.00	099.29	100.45	102.18	103.56	37.90	0.00	103.29	100.71	38.60	0.00	098.52	098.55
21	9.80	0.00	099.10	099.69	101.57	102.80	35.20	0.00	102.95	100.69	38.70	0.00	098.81	098.50
22	9.90	0.00	099.06	099.25	100.97	102.28	34.30	0.00	102.37	100.54	36.80	0.00	098.22	098.61
23	9.80	0.00	099.05	099.11	100.63	101.83	29.80	0.00	101.98	100.21	29.60	0.00	097.91	098.19
24	9.80	0.00	099.04	098.83	100.53	101.41	29.20	0.00	101.85	100.08	22.60	0.00	098.06	098.15
	LOWER MONUMENTAL			ICE HARBOR			MCNARY			PASCO				
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	14.40	0.00	100.81	098.76	12.70	0.00	099.97	128.85	59.10	0.00	102.17	102.66	102.39	102.52
2	14.20	0.00	100.75	098.60	12.50	0.00	099.37	128.78	58.60	0.00	101.89	102.36	102.21	102.20
3	14.20	0.00	100.75	098.38	14.20	0.00	099.39	128.77	59.20	0.00	101.46	101.94	102.19	102.06
4	14.30	0.00	100.74	098.36	12.70	0.00	098.14	128.60	60.60	0.00	101.31	101.77	102.05	101.80
5	18.00	0.00	100.52	098.32	12.90	0.00	099.19	128.56	64.10	0.00	101.43	101.64	102.20	101.50
6	17.90	0.00	100.50	098.16	13.00	0.00	099.32	128.70	73.20	0.00	101.54	101.88	101.99	101.34
7	18.10	0.00	100.50	098.55	20.20	0.00	100.21	128.78	83.50	0.00	101.50	101.70	102.12	101.26
8	28.00	0.00	100.46	099.04	20.80	0.00	100.25	128.85	84.60	0.00	101.50	101.42	102.20	101.13
9	32.60	0.00	100.43	099.35	31.70	0.00	100.67	129.40	84.80	0.00	101.22	101.51	102.44	101.01
10	34.90	0.00	100.46	099.73	36.10	0.00	100.52	129.81	84.80	0.00	101.34	101.78	102.61	101.04
11	34.90	0.00	100.43	100.48	36.70	0.00	100.04	103.88	84.20	0.00	101.63	101.97	102.74	101.26
12	39.10	0.00	100.33	100.52	37.70	0.00	100.71	102.70	83.10	0.00	101.41	101.99	102.90	101.24
13	38.00	0.00	100.50	100.87	38.00	0.00	100.64	102.20	83.50	0.00	101.55	101.76	103.07	101.41
14	38.00	0.00	100.40	100.76	39.60	0.00	100.40	102.16	83.50	0.00	102.48	101.78	103.25	101.85
15	41.70	0.00	100.43	100.53	40.60	0.00	100.25	102.53	84.20	0.00	102.63	101.80	103.13	102.04
16	40.60	0.00	100.29	100.05	43.30	0.00	100.28	101.76	85.10	0.00	102.52	101.82	103.04	101.90
17	39.90	0.00	100.11	099.53	41.20	0.00	100.08	101.47	84.80	0.00	102.68	101.84	102.79	102.09
18	41.40	0.00	100.07	100.17	40.80	0.00	100.23	101.93	84.80	0.00	103.15	101.74	102.55	102.40
19	39.80	0.00	100.12	099.69	40.70	0.00	100.20	101.19	84.90	0.00	103.06	101.62	102.28	102.53
20	39.70	0.00	100.23	098.72	42.40	0.00	098.98	101.07	85.00	0.00	102.74	101.61	101.98	102.65
21	38.20	0.00	100.28	098.46	39.50	0.00	098.65	101.39	85.50	0.00	102.40	101.38	101.80	102.58
22	38.40	0.00	100.25	098.32	39.80	0.00	100.35	100.60	83.80	0.00	102.18	101.17	101.47	102.34
23	29.70	0.00	099.96	098.21	29.80	0.00	100.31	100.48	68.70	0.00	102.16	101.14	101.30	102.17
24	30.60	0.00	099.91	099.37	20.70	0.00	099.71	100.45	62.60	0.00	101.86	101.14	101.26	102.17

16 JUL 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

16 JUL 2001

DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.
1	9.70	0.00	100.56	099.43	101.37	101.26	14.90	0.00	102.78	100.23	25.10	0.00	096.76	096.87
2	9.70	0.00	100.66	099.12	101.18	100.73	14.70	0.00	102.89	099.91	18.50	0.00	096.60	096.74
3	9.80	0.00	100.64	098.68	101.18	100.39	14.80	0.00	102.57	099.72	16.50	0.00	097.29	096.87
4	9.80	0.00	100.55	098.35	101.05	100.08	15.10	0.00	101.76	099.54	18.00	0.00	097.15	096.85
5	9.90	0.00	100.52	098.15	100.81	099.84	15.10	0.00	102.11	099.78	16.50	0.00	096.98	096.83
6	9.70	0.00	100.55	097.97	100.85	099.62	14.60	0.00	102.07	100.15	14.30	0.00	097.36	096.80
7	9.70	0.00	100.41	098.20	101.01	099.43	15.00	0.00	101.73	100.08	14.00	0.00	096.66	096.74
8	9.70	0.00	100.45	098.26	100.94	099.39	25.00	0.00	101.80	100.19	20.00	0.00	096.87	096.83
9	9.90	0.00	100.25	098.49	101.04	099.47	26.00	0.00	101.61	100.16	25.70	0.00	097.12	097.23
10	9.70	0.00	100.50	098.87	101.36	099.73	26.80	0.00	101.77	100.18	27.00	0.00	097.48	097.77
11	9.70	0.00	100.74	099.67	101.80	100.08	27.00	0.00	101.46	100.24	27.40	0.00	097.33	097.84
12	9.70	0.00	100.69	100.88	102.33	100.63	29.30	0.00	102.30	100.55	30.60	0.00	098.05	098.31
13	9.70	0.00	100.84	102.69	103.11	101.57	29.90	0.00	102.35	100.61	28.80	0.00	098.03	098.56
14	9.90	0.00	100.75	103.99	103.77	102.73	29.60	0.00	101.85	100.74	28.90	0.00	098.21	098.20
15	9.70	0.00	100.91	104.59	103.82	103.42	31.30	0.00	102.81	100.89	31.50	0.00	097.98	098.52
16	9.70	0.00	101.08	104.96	104.37	104.03	29.50	0.00	102.76	101.00	30.90	0.00	098.37	098.55
17	9.80	0.00	100.98	105.05	104.47	104.48	30.80	0.00	102.64	101.27	34.80	0.00	098.44	098.53
18	9.90	0.00	100.72	103.56	104.11	104.47	32.80	0.00	103.05	101.39	35.80	0.00	098.44	098.41
19	9.70	0.00	100.98	102.70	103.47	104.06	32.30	0.00	103.42	100.82	36.10	0.00	098.31	098.27
20	9.70	0.00	100.30	101.84	102.67	103.48	32.30	0.00	104.07	100.67	37.90	0.00	097.99	098.11
21	9.70	0.00	100.12	101.06	101.88	102.80	32.30	0.00	104.30	100.59	36.20	0.00	098.22	098.21
22	9.70	0.00	100.10	100.35	101.58	102.16	31.50	0.00	105.66	100.54	30.50	0.00	098.28	097.97
23	9.90	0.00	100.19	099.89	101.15	101.74	19.30	0.00	105.66	100.43	21.90	0.00	097.97	097.96
24	9.70	0.00	100.18	099.43	101.04	101.20	16.90	0.00	105.35	100.22	16.30	0.00	098.43	098.02
LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT
1	27.20	0.00	101.36	099.50	28.00	0.00	102.67	107.96	59.40	0.00	103.47	104.04	103.21	105.11
2	21.40	0.00	101.38	099.19	23.90	0.00	102.66	107.94	71.10	0.00	103.63	103.93	103.24	104.81
3	17.50	0.00	101.36	099.44	20.50	0.00	102.39	107.96	71.20	0.00	103.84	104.04	103.24	104.71
4	17.40	0.00	101.35	099.32	19.60	0.00	101.33	108.21	75.40	0.00	104.08	103.90	103.18	104.24
5	17.50	0.00	101.33	099.26	12.80	0.00	101.14	129.70	92.70	0.00	103.64	103.74	103.15	104.00
6	14.70	0.00	101.12	099.07	11.80	0.00	100.98	129.57	97.70	0.00	103.79	103.67	103.20	103.81
7	14.30	0.00	101.06	099.30	10.00	0.00	101.59	129.15	102.40	0.00	103.43	103.47	103.38	103.46
8	19.70	0.00	101.05	099.67	12.70	0.00	100.98	129.12	104.80	0.00	103.16	103.35	103.44	103.16
9	21.60	0.00	101.04	099.93	20.00	0.00	100.70	129.06	98.40	0.00	102.63	103.19	103.60	103.15
10	26.50	0.00	101.14	100.35	22.00	0.00	099.89	129.46	89.40	0.00	102.75	103.46	103.58	103.15
11	29.60	0.00	101.20	101.10	24.90	0.00	101.42	129.08	93.50	0.00	103.01	103.72	103.72	103.18
12	31.20	0.00	101.18	100.71	27.00	0.00	100.74	129.25	101.20	0.00	102.92	103.75	104.02	103.20
13	30.10	0.00	101.08	101.01	25.30	0.00	100.39	129.00	80.20	0.00	103.35	103.75	104.15	103.47
14	32.40	0.00	101.08	101.44	29.30	0.00	100.94	129.39	79.00	0.00	103.24	103.69	104.21	103.79
15	32.00	0.00	101.12	102.71	33.20	0.00	100.97	129.43	78.40	0.00	102.87	103.58	104.10	103.94
16	35.00	0.00	101.14	101.41	33.50	0.00	101.35	129.60	75.50	0.00	102.74	103.62	103.99	104.09
17	32.30	0.00	101.27	102.39	34.70	0.00	101.09	129.59	69.60	0.00	102.78	103.48	103.88	104.36
18	32.10	0.00	101.27	101.01	37.00	0.00	100.99	129.53	65.90	0.00	102.71	103.57	103.57	104.22
19	33.70	0.00	101.13	100.50	34.80	0.00	099.73	129.53	65.90	0.00	102.69	103.42	103.27	104.07
20	34.80	0.00	101.22	099.70	34.90	0.00	101.11	129.38	65.60	0.00	102.55	103.37	103.01	104.02
21	34.80	0.00	101.13	099.46	34.80	0.00	100.58	129.26	66.10	0.00	102.47	103.19	102.79	103.55
22	35.20	0.00	100.97	099.29	34.70	0.00	100.59	129.16	64.90	0.00	102.14	103.12	102.59	102.89
23	28.10	0.00	100.94	099.05	34.90	0.00	101.08	129.22	64.40	0.00	102.20	102.75	102.40	102.72
24	18.40	0.00	100.86	099.52	20.20	0.00	100.39	128.85	60.30	0.00	102.18	102.56	102.57	102.72

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WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

15 JUL 2001

	DWORSHAK			STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	9.90	0.00	100.57	100.11	101.51	101.75	14.30	0.00	100.68	100.54	16.70	0.00	097.85	097.91
2	9.70	0.00	100.72	100.01	101.31	101.25	13.80	0.00	100.77	100.78	13.80	0.00	097.11	097.76
3	9.70	0.00	100.82	099.71	101.51	100.86	14.00	0.00	102.93	100.50	13.00	0.00	096.26	097.35
4	9.70	0.00	100.81	099.47	101.34	100.42	14.20	0.00	103.06	100.37	18.90	0.00	096.40	097.32
5	9.70	0.00	100.77	099.48	101.26	099.96	14.60	0.00	101.32	100.73	13.10	0.00	096.10	097.15
6	9.90	0.00	100.62	099.32	101.22	099.66	14.20	0.00	101.23	100.85	12.90	0.00	095.86	097.03
7	9.70	0.00	100.72	099.44	101.40	099.78	14.10	0.00	101.37	100.69	19.30	0.00	096.61	097.17
8	9.70	0.00	100.72	099.84	101.51	100.01	17.20	0.00	101.56	101.39	18.60	0.00	096.26	097.43
9	9.70	0.00	100.72	100.81	102.14	100.99	20.70	0.00	101.86	101.69	18.20	0.00	095.82	097.44
10	9.90	0.00	100.86	101.71	102.82	101.69	20.50	0.00	101.72	101.87	18.20	0.00	095.87	097.63
11	9.70	0.00	101.04	102.83	103.30	102.70	20.70	0.00	101.99	102.00	18.20	0.00	096.34	097.62
12	9.70	0.00	101.23	103.87	104.39	103.91	29.60	0.00	102.58	102.04	19.40	0.00	096.50	097.67
13	9.70	0.00	101.21	104.77	104.63	104.54	30.20	0.00	103.79	101.96	28.10	0.00	096.17	097.98
14	9.70	0.00	101.41	106.24	105.34	105.10	30.80	0.00	104.36	102.09	28.90	0.00	096.22	098.06
15	9.90	0.00	101.23	106.30	105.85	105.43	32.00	0.00	104.01	101.94	30.90	0.00	096.51	097.95
16	9.70	0.00	101.43	106.75	105.79	105.82	31.90	0.00	103.59	101.68	28.90	0.00	096.94	097.98
17	9.70	0.00	101.43	106.34	105.42	105.83	30.20	0.00	103.10	101.99	28.80	0.00	097.05	097.93
18	9.70	0.00	101.39	104.53	104.97	105.56	30.20	0.00	103.52	101.36	29.00	0.00	096.81	097.82
19	9.70	0.00	101.43	103.69	104.31	104.97	30.80	0.00	103.13	101.07	28.90	0.00	096.26	097.69
20	9.90	0.00	100.92	102.49	103.55	104.22	30.50	0.00	102.94	101.09	30.40	0.00	096.34	097.49
21	9.80	0.00	100.82	101.44	102.79	103.36	30.30	0.00	102.77	101.69	28.90	0.00	096.48	097.26
22	9.70	0.00	100.60	100.75	102.14	102.83	30.70	0.00	102.75	101.10	30.70	0.00	096.71	097.25
23	9.70	0.00	100.45	100.31	101.87	102.20	32.10	0.00	103.20	?UNDEF	33.30	0.00	096.62	097.14
24	9.90	0.00	100.44	099.89	101.44	101.77	27.80	0.00	103.16	098.40	28.70	0.00	096.79	096.89

HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO	
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT
1	19.90	0.00	102.55	099.95	22.40	0.00	103.97	105.95	57.20	0.00	108.60	105.42	105.29	106.74
2	19.40	0.00	102.47	100.07	11.80	0.00	102.32	106.10	54.50	0.00	107.45	104.97	105.16	106.45
3	14.00	0.00	102.17	099.79	11.80	0.00	101.72	106.05	56.20	0.00	106.77	104.38	104.81	106.54
4	18.80	0.00	102.04	099.77	11.10	0.00	100.82	106.05	64.00	0.00	106.37	104.55	104.70	106.28
5	14.50	0.00	101.89	099.58	11.30	0.00	100.38	106.04	58.70	0.00	106.13	104.55	104.72	106.12
6	14.10	0.00	101.63	099.60	11.00	0.00	099.54	106.20	59.30	0.00	105.61	104.95	104.69	105.76
7	18.90	0.00	101.47	099.79	12.30	0.00	101.41	106.32	116.60	0.00	105.97	104.53	104.53	105.32
8	18.90	0.00	101.47	100.48	12.80	0.00	101.68	106.46	118.40	0.00	105.28	104.55	104.53	105.11
9	19.00	0.00	101.50	101.30	20.30	0.00	101.60	106.61	113.30	0.00	106.11	104.69	104.54	104.97
10	19.20	0.00	101.66	101.28	21.70	0.00	100.94	107.15	94.00	0.00	106.02	104.75	104.67	104.99
11	19.10	0.00	101.67	102.19	20.20	0.00	100.70	107.04	93.80	0.00	106.30	104.91	104.88	105.16
12	19.80	0.00	101.73	102.56	21.60	0.00	100.24	107.18	81.30	0.00	105.78	104.91	104.93	105.46
13	28.90	0.00	101.96	102.46	27.70	0.00	100.81	107.38	77.90	0.00	106.48	104.83	104.93	105.64
14	29.10	0.00	101.97	102.71	29.60	0.00	101.12	107.74	61.20	0.00	105.52	104.76	105.19	105.86
15	29.30	0.00	102.16	103.20	29.70	0.00	101.47	107.51	60.30	0.00	105.73	104.44	105.32	106.21
16	32.30	0.00	102.52	103.01	31.40	0.00	102.19	107.72	77.50	0.00	106.11	104.56	105.33	106.34
17	32.40	0.00	102.58	102.53	31.50	0.00	102.01	107.93	78.90	0.00	106.29	104.46	105.28	106.83
18	32.80	0.00	102.68	102.45	32.10	0.00	102.80	107.91	78.30	0.00	106.72	104.93	104.93	107.29
19	32.10	0.00	102.69	101.59	31.60	0.00	101.70	107.69	78.30	0.00	106.02	104.89	104.75	107.10
20	33.80	0.00	102.77	100.54	31.70	0.00	101.66	107.62	65.30	0.00	105.53	104.55	104.67	106.63
21	32.30	0.00	102.82	100.24	31.50	0.00	101.55	107.62	62.60	0.00	105.09	104.25	104.26	106.10
22	31.60	0.00	102.73	099.89	32.10	0.00	101.21	107.67	61.70	0.00	104.49	104.27	103.75	105.78
23	30.30	0.00	102.46	099.77	32.00	0.00	103.02	107.76	59.10	0.00	104.33	104.35	103.72	105.58
24	28.80	0.00	101.51	099.56	30.40	0.00	102.97	107.85	52.40	0.00	103.93	104.36	103.43	105.58

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WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

14 JUL 2001

HOUR	DWRSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
	TOTAL DISCH. KCFS	SPILL KCFS	GAS TAILW.	%SAT	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	
1	9.40	0.00	100.11		100.16	101.14	101.28	17.40	0.00	109.01	100.50	16.50	0.00	098.99	098.96	
2	9.80	0.00	100.07		099.76	101.23	100.89	17.10	0.00	107.58	100.59	17.30	0.00	099.10	098.80	
3	9.70	0.00	100.04		099.50	101.02	100.46	17.00	0.00	106.74	100.19	15.70	0.00	099.06	098.49	
4	9.70	0.00	100.05		099.34	100.83	100.12	17.00	0.00	106.32	100.39	15.80	0.00	098.90	098.30	
5	9.70	0.00	099.88		099.15	100.86	099.80	17.50	0.00	106.01	100.77	17.50	0.00	098.74	098.28	
6	9.70	0.00	099.99		099.20	100.83	099.50	20.20	0.00	106.65	100.44	17.20	0.00	098.00	098.13	
7	9.90	0.00	100.00		099.32	101.17	099.77	20.80	0.00	106.61	100.54	17.20	0.00	097.61	098.12	
8	9.70	0.00	100.11		099.89	101.77	100.30	20.60	0.00	106.62	100.98	19.50	0.00	097.64	098.12	
9	9.70	0.00	100.48		100.75	102.61	101.16	25.20	0.00	105.95	101.11	20.20	0.00	097.52	098.26	
10	9.70	0.00	100.69		101.81	102.89	102.02	25.40	0.00	107.64	101.33	27.40	0.00	097.22	098.57	
11	9.90	0.00	100.78		103.15	104.42	103.03	27.10	0.00	105.90	101.51	26.00	0.00	097.21	098.76	
12	9.70	0.00	100.99		104.45	105.06	104.06	29.70	0.00	104.67	101.83	30.20	0.00	097.14	098.83	
13	9.70	0.00	101.38		105.58	104.60	104.93	30.30	0.00	105.60	101.80	29.80	0.00	097.19	098.94	
14	9.70	0.00	101.32		106.63	106.02	105.85	32.20	0.00	101.49	102.04	29.90	0.00	097.20	099.05	
15	9.70	0.00	101.42		107.17	106.17	106.39	36.60	0.00	102.03	102.00	35.80	0.00	097.27	099.14	
16	9.90	0.00	101.50		107.41	106.30	106.73	35.40	0.00	103.86	102.13	36.50	0.00	097.24	099.27	
17	9.70	0.00	101.57		106.95	105.96	106.85	36.00	0.00	104.15	101.95	35.40	0.00	097.21	099.19	
18	9.70	0.00	101.38		105.59	105.42	106.84	35.40	0.00	102.71	101.99	36.10	0.00	097.20	099.18	
19	9.70	0.00	101.57		104.35	104.50	106.43	35.50	0.00	103.57	101.69	35.40	0.00	097.23	099.06	
20	9.70	0.00	100.97		103.35	103.54	105.61	35.60	0.00	103.51	101.50	35.20	0.00	097.28	098.76	
21	9.90	0.00	100.83		102.41	102.85	104.70	34.80	0.00	103.11	102.26	35.10	0.00	097.14	098.59	
22	9.70	0.00	100.74		101.64	102.38	103.83	31.60	0.00	102.32	101.65	38.80	0.00	097.15	098.34	
23	9.70	0.00	100.56		100.91	102.12	102.96	30.70	0.00	101.93	101.38	39.00	0.00	097.12	098.20	
24	9.70	0.00	100.68		100.46	101.63	102.36	30.30	0.00	101.33	101.19	31.60	0.00	097.28	098.05	
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT		
1	20.70	0.00	104.05	099.48	28.80	0.00	104.10	103.48	69.40	0.00	106.85	105.33	105.17	106.25		
2	14.80	0.00	103.71	099.23	20.70	0.00	103.03	103.46	67.10	0.00	105.65	105.69	104.94	106.12		
3	14.60	0.00	103.16	099.21	13.60	0.00	102.45	103.34	68.50	0.00	105.85	106.33	105.01	106.06		
4	14.70	0.00	102.34	099.15	13.00	0.00	102.04	103.15	67.50	0.00	105.35	106.71	104.75	105.90		
5	14.50	0.00	101.61	098.96	13.20	0.00	101.13	102.99	75.60	0.00	105.21	106.83	104.46	105.75		
6	14.50	0.00	101.62	099.08	12.90	0.00	100.57	103.04	66.90	0.00	105.48	106.45	104.58	105.47		
7	16.10	0.00	100.94	099.32	12.90	0.00	100.41	103.04	88.30	0.00	106.51	106.70	104.66	105.38		
8	16.60	0.00	101.35	100.11	12.90	0.00	099.85	103.28	80.40	0.00	106.26	106.68	104.80	105.34		
9	20.60	0.00	101.53	100.48	14.40	0.00	100.24	103.38	81.00	0.00	107.28	105.74	105.08	105.38		
10	28.00	0.00	101.00	101.24	24.70	0.00	102.93	104.10	81.80	0.00	107.32	105.28	105.55	105.51		
11	26.40	0.00	102.01	101.60	27.50	0.00	102.99	104.11	81.70	0.00	107.79	105.21	105.77	105.61		
12	29.10	0.00	102.20	101.82	29.30	0.00	102.68	104.25	81.70	0.00	109.02	105.86	105.95	105.79		
13	30.90	0.00	102.66	102.48	29.60	0.00	103.15	104.48	81.70	0.00	106.07	105.89	106.30	106.14		
14	29.90	0.00	102.53	102.57	30.20	0.00	103.93	105.03	80.60	0.00	105.30	106.41	106.28	106.40		
15	34.10	0.00	102.64	102.20	34.90	0.00	103.91	104.97	89.60	0.00	105.26	108.03	106.57	106.66		
16	36.30	0.00	102.69	102.25	35.80	0.00	105.14	105.23	90.20	0.00	105.39	108.02	106.55	106.92		
17	35.70	0.00	102.96	102.19	35.80	0.00	104.97	105.32	91.00	0.00	105.59	107.57	106.55	107.16		
18	35.70	0.00	103.47	102.05	35.90	0.00	105.48	105.40	89.90	0.00	106.37	107.48	106.26	107.35		
19	35.70	0.00	103.94	101.83	35.90	0.00	105.87	105.43	99.40	0.00	109.63	108.04	106.16	107.29		
20	35.70	0.00	103.35	100.92	37.40	0.00	105.72	105.39	100.40	0.00	108.26	108.63	105.95	107.41		
21	35.70	0.00	103.43	100.58	36.70	0.00	105.31	105.36	100.10	0.00	107.37	108.45	105.89	107.38		
22	37.50	0.00	103.63	100.57	37.70	0.00	104.62	105.63	104.60	0.00	106.69	107.19	106.00	107.32		
23	38.20	0.00	103.06	100.54	37.80	0.00	104.28	105.55	101.70	0.00	106.84	106.52	105.71	107.02		
24	30.60	0.00	102.91	100.34	31.00	0.00	103.57	105.88	60.90	0.00	107.83	106.41	105.48	107.02		

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WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

13 JUL 2001

	DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	
1	9.90	0.00	099.69	099.36	101.15	101.09	17.10	0.00	107.29	099.80	16.70	0.00	103.54	099.23	
2	9.70	0.00	099.38	099.09	100.98	100.69	17.00	0.00	107.00	100.07	16.50	0.00	103.35	099.17	
3	9.70	0.00	099.35	098.84	100.80	100.42	15.20	0.00	106.78	099.89	16.10	0.00	102.80	099.03	
4	9.70	0.00	099.47	098.68	100.58	099.96	15.30	0.00	106.41	099.69	15.80	0.00	102.21	098.87	
5	9.70	0.00	099.45	098.50	100.66	099.65	15.40	0.00	106.47	100.05	15.90	0.00	101.81	098.84	
6	9.80	0.00	099.45	098.43	100.90	099.52	20.20	0.00	106.56	099.99	15.90	0.00	101.66	098.67	
7	9.70	0.00	099.72	098.85	101.10	099.74	20.80	0.00	106.04	100.24	18.50	0.00	101.59	098.53	
8	9.70	0.00	099.73	099.66	101.55	100.40	20.90	0.00	105.67	100.56	19.50	0.00	101.34	098.68	
9	9.70	0.00	100.01	100.51	102.74	101.26	24.70	0.00	106.11	100.90	19.60	0.00	101.93	098.93	
10	9.90	0.00	100.24	101.70	102.77	102.11	25.30	0.00	106.42	100.91	23.20	0.00	102.34	098.97	
11	9.70	0.00	100.43	102.38	104.17	102.98	29.40	0.00	106.09	100.95	29.10	0.00	102.77	099.55	
12	9.70	0.00	100.45	103.56	104.47	103.83	29.20	0.00	106.24	101.27	29.60	0.00	102.96	099.73	
13	9.70	0.00	100.47	103.72	104.24	104.14	29.20	0.00	106.59	101.37	31.00	0.00	103.73	099.84	
14	9.70	0.00	100.34	104.01	104.16	104.75	29.30	0.00	108.27	101.53	30.30	0.00	104.08	100.01	
15	9.80	0.00	100.50	104.59	104.19	105.21	29.80	0.00	108.51	101.51	30.90	0.00	104.16	100.09	
16	9.70	0.00	100.53	106.24	104.67	105.57	29.40	0.00	108.98	101.43	30.40	0.00	101.85	100.19	
17	9.70	0.00	100.65	106.33	104.73	105.90	34.70	0.00	108.14	101.37	34.20	0.00	101.22	100.09	
18	9.70	0.00	100.60	104.63	104.45	105.98	34.60	0.00	107.75	101.44	35.30	0.00	101.55	100.16	
19	9.70	0.00	100.65	104.03	103.89	105.58	37.70	0.00	107.64	101.56	35.40	0.00	100.07	100.15	
20	9.90	0.00	100.20	103.06	103.23	104.90	35.00	0.00	107.21	101.13	39.00	0.00	099.23	099.88	
21	9.70	0.00	100.18	102.26	102.49	103.97	34.60	0.00	108.79	101.90	39.30	0.00	098.96	099.73	
22	9.70	0.00	100.24	101.60	102.02	103.09	34.80	0.00	110.39	101.08	40.30	0.00	101.60	099.58	
23	9.70	0.00	099.97	101.02	101.76	102.40	33.70	0.00	109.70	100.78	38.80	0.00	099.73	099.44	
24	9.90	0.00	100.10	100.45	101.43	101.88	17.10	0.00	107.81	100.55	25.30	0.00	099.84	099.40	
	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT	
1	19.10	0.00	101.36	099.49	21.80	0.00	103.24	102.50	62.30	0.00	107.15	105.74	103.79	105.51	
2	14.70	0.00	100.94	099.31	12.90	0.00	103.05	102.50	62.50	0.00	106.99	106.79	104.16	105.35	
3	14.20	0.00	100.47	099.04	12.90	0.00	102.77	102.49	71.50	0.00	106.74	106.28	104.28	105.19	
4	15.80	0.00	100.08	098.76	13.00	0.00	102.46	102.31	62.00	0.00	107.01	105.19	104.12	105.04	
5	14.40	0.00	099.95	099.41	13.00	0.00	103.69	102.15	66.10	0.00	106.43	105.16	104.11	104.91	
6	14.60	0.00	099.97	099.08	13.00	0.00	103.35	102.23	69.50	0.00	106.14	105.40	104.03	104.66	
7	17.20	0.00	099.99	099.18	12.90	0.00	101.83	102.34	72.00	0.00	106.47	105.21	104.10	104.50	
8	19.10	0.00	100.64	099.36	14.50	0.00	102.37	102.71	71.50	0.00	105.79	105.42	104.37	104.78	
9	19.70	0.00	100.93	100.36	14.10	0.00	102.25	102.98	73.30	0.00	105.01	106.02	104.65	104.94	
10	19.70	0.00	100.98	100.95	20.30	0.00	102.98	103.52	66.90	0.00	107.58	106.72	104.86	105.25	
11	26.50	0.00	101.30	101.56	20.40	0.00	102.71	103.65	65.60	0.00	107.20	106.10	105.06	105.69	
12	28.00	0.00	102.14	101.79	25.00	0.00	103.42	104.00	64.80	0.00	107.64	106.02	105.62	105.97	
13	28.30	0.00	102.10	101.91	29.10	0.00	103.62	104.07	70.10	0.00	107.46	105.35	105.73	106.32	
14	29.40	0.00	103.24	102.18	29.40	0.00	104.51	104.25	70.50	0.00	107.27	107.01	106.05	106.67	
15	30.70	0.00	103.04	102.40	31.60	0.00	104.55	104.21	69.50	0.00	107.09	107.76	106.27	107.02	
16	30.40	0.00	102.99	102.52	30.30	0.00	104.41	104.24	69.20	0.00	106.68	108.21	106.51	107.10	
17	30.40	0.00	102.62	102.33	30.10	0.00	104.76	104.44	67.20	0.00	107.02	107.78	106.48	107.07	
18	34.30	0.00	102.86	101.69	30.20	0.00	104.84	104.24	66.60	0.00	109.07	107.44	106.17	107.02	
19	36.20	0.00	102.71	101.11	34.10	0.00	105.23	104.12	67.60	0.00	109.06	107.19	106.02	107.02	
20	41.90	0.00	102.58	100.32	39.30	0.00	105.26	103.86	66.90	0.00	108.70	106.83	105.78	107.02	
21	42.90	0.00	103.09	100.12	40.60	0.00	104.59	103.79	69.20	0.00	108.54	106.79	105.72	106.92	
22	43.70	0.00	103.88	099.89	40.80	0.00	105.11	103.91	69.80	0.00	108.60	106.30	105.52	106.54	
23	43.10	0.00	104.40	099.87	42.50	0.00	104.76	103.75	74.40	0.00	108.47	105.61	105.35	106.52	
24	41.80	0.00	104.27	099.67	40.90	0.00	104.45	103.71	84.70	0.00	107.95	105.51	105.41	106.52	

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WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

12 JUL 2001

	DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	
1	9.70	0.00	100.16	099.35	101.24	101.44	14.30	0.00	106.75	099.12	19.30	0.00	105.18	100.97	
2	9.80	0.00	100.03	099.02	101.20	101.04	14.20	0.00	106.79	099.23	14.90	0.00	105.23	100.76	
3	9.70	0.00	099.99	098.54	101.02	100.48	15.60	0.00	105.69	098.96	14.10	0.00	104.05	100.11	
4	9.70	0.00	100.04	098.44	100.94	100.20	15.80	0.00	105.21	098.91	14.00	0.00	104.15	099.55	
5	9.70	0.00	099.74	098.55	100.94	099.72	16.50	0.00	105.13	100.05	14.10	0.00	103.93	099.48	
6	9.70	0.00	099.54	098.52	100.88	099.56	25.30	0.00	106.98	101.06	14.10	0.00	104.33	099.31	
7	9.90	0.00	099.65	098.89	101.00	099.81	25.20	0.00	107.64	100.08	14.40	0.00	104.23	099.39	
8	9.70	0.00	099.84	099.24	101.90	100.34	29.10	0.00	108.18	100.11	28.10	0.00	105.05	099.81	
9	9.70	0.00	099.84	100.18	102.62	101.13	33.90	0.00	107.49	100.38	36.10	0.00	105.20	100.48	
10	9.70	0.00	099.99	100.78	102.77	101.94	33.50	0.00	107.21	100.32	36.40	0.00	105.45	100.84	
11	9.70	0.00	099.96	102.45	103.57	102.91	34.80	0.00	106.57	100.34	38.00	0.00	105.57	101.24	
12	9.90	0.00	100.24	104.27	104.36	103.73	35.00	0.00	106.42	100.48	39.70	0.00	105.09	101.56	
13	9.70	0.00	100.45	106.16	103.90	104.90	34.90	0.00	107.37	100.54	40.50	0.00	106.06	101.74	
14	9.70	0.00	100.52	107.43	105.08	105.77	35.50	0.00	108.40	100.83	38.40	0.00	106.77	101.90	
15	9.70	0.00	100.33	105.32	105.34	106.35	36.40	0.00	108.73	101.06	38.40	0.00	106.89	102.01	
16	9.90	0.00	100.08	104.73	104.35	106.14	30.00	0.00	107.83	100.98	36.90	0.00	106.99	102.06	
17	9.70	0.00	100.16	104.30	103.74	105.73	29.60	0.00	106.99	100.93	33.60	0.00	107.18	102.01	
18	9.70	0.00	100.12	104.27	103.64	105.12	31.60	0.00	108.43	100.61	31.70	0.00	106.21	101.74	
19	9.70	0.00	100.16	103.41	103.23	104.75	31.10	0.00	109.78	100.63	31.60	0.00	105.69	101.33	
20	9.70	0.00	100.08	102.43	102.67	104.00	32.00	0.00	109.36	100.58	33.30	0.00	107.65	100.99	
21	9.90	0.00	099.77	101.30	102.19	103.31	32.30	0.00	109.43	100.83	32.90	0.00	106.78	100.76	
22	9.70	0.00	099.81	100.24	101.88	102.58	32.10	0.00	109.01	100.29	32.40	0.00	106.23	100.59	
23	9.70	0.00	099.50	099.70	101.29	101.99	31.70	0.00	107.62	100.11	32.80	0.00	104.64	100.17	
24	9.70	0.00	099.61	099.61	101.28	101.49	31.00	0.00	107.41	100.03	25.00	0.00	104.58	099.87	
	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT	
1	21.30	0.00	105.68	100.17	28.40	0.00	105.54	103.19	65.60	0.00	108.60	106.79	105.72	105.87	
2	14.80	0.00	105.22	100.07	14.00	0.00	104.65	103.14	68.40	0.00	109.46	106.57	105.93	105.69	
3	15.30	0.00	105.64	099.69	10.10	0.00	103.78	102.95	65.00	0.00	107.66	106.92	105.85	105.45	
4	13.80	0.00	105.50	100.72	11.90	0.00	103.62	102.76	69.00	0.00	106.26	107.00	105.67	105.30	
5	13.90	0.00	104.92	099.99	10.20	0.00	103.59	102.57	69.30	0.00	106.35	107.09	105.91	105.08	
6	14.00	0.00	104.86	099.31	10.30	0.00	103.52	102.68	72.70	0.00	108.29	107.57	105.55	104.88	
7	14.10	0.00	104.97	099.79	11.80	0.00	103.51	102.96	75.80	0.00	108.13	107.64	105.27	104.72	
8	21.30	0.00	104.94	100.31	14.20	0.00	102.80	103.12	79.70	0.00	108.77	107.12	105.27	104.66	
9	27.00	0.00	105.19	101.11	23.10	0.00	104.33	103.30	79.30	0.00	109.02	107.35	105.74	104.63	
10	34.80	0.00	105.40	101.09	33.00	0.00	104.48	104.32	76.00	0.00	109.42	106.83	106.02	104.65	
11	38.10	0.00	105.18	101.80	34.80	0.00	104.98	104.07	76.10	0.00	110.09	105.53	106.45	104.78	
12	39.50	0.00	104.47	102.02	39.00	0.00	104.76	104.14	76.10	0.00	109.00	105.16	106.74	104.93	
13	41.10	0.00	104.26	102.13	40.70	0.00	104.29	104.14	76.50	0.00	108.43	105.70	106.53	105.26	
14	40.20	0.00	105.25	102.22	40.90	0.00	103.94	104.20	77.40	0.00	108.56	106.41	106.66	105.42	
15	41.80	0.00	105.05	102.14	41.00	0.00	104.01	104.13	77.40	0.00	108.94	106.75	106.81	105.52	
16	39.70	0.00	104.48	102.68	40.10	0.00	103.01	104.07	75.50	0.00	110.36	107.30	106.91	105.71	
17	39.70	0.00	104.79	102.47	40.00	0.00	105.85	104.10	75.20	0.00	110.43	108.40	106.82	105.75	
18	38.30	0.00	104.79	102.20	40.70	0.00	106.70	103.99	74.70	0.00	111.45	108.70	106.71	105.81	
19	38.90	0.00	104.82	101.85	40.30	0.00	106.33	103.87	80.40	0.00	111.47	108.15	106.50	105.82	
20	40.90	0.00	104.87	101.06	40.60	0.00	104.84	103.35	69.30	0.00	106.34	107.40	106.15	106.23	
21	39.80	0.00	104.70	100.59	40.70	0.00	102.87	102.94	67.90	0.00	105.40	106.29	105.60	106.09	
22	39.50	0.00	102.83	100.33	40.60	0.00	101.86	102.83	66.40	0.00	107.45	105.68	104.91	105.80	
23	35.00	0.00	102.14	099.89	39.90	0.00	102.17	102.78	61.90	0.00	107.84	104.98	103.82	105.59	
24	28.30	0.00	101.62	099.61	34.90	0.00	102.80	102.75	61.60	0.00	107.51	104.82	103.66	105.59	

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WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

11 JUL 2001

	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR :	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1 :	9.70	0.00	100.44	099.73	101.64	101.26	17.70	0.00	108.31	098.07	17.30	0.00	105.73	100.86
2 :	9.70	0.00	100.25	099.58	101.43	100.78	17.20	0.00	107.73	098.03	18.30	0.00	104.88	100.67
3 :	9.70	0.00	100.10	099.25	101.27	100.38	15.20	0.00	108.12	097.88	14.10	0.00	104.52	100.40
4 :	9.80	0.00	100.20	099.13	101.12	100.07	15.20	0.00	107.43	098.66	14.00	0.00	105.09	100.24
5 :	9.70	0.00	100.19	098.97	101.11	099.62	15.20	0.00	107.64	098.88	15.20	0.00	104.39	100.20
6 :	9.60	0.00	099.99	098.91	101.02	099.58	26.00	0.00	107.69	098.85	26.60	0.00	104.60	100.42
7 :	9.70	0.00	100.08	099.39	101.46	099.66	27.60	0.00	108.06	098.90	26.70	0.00	103.47	100.51
8 :	9.80	0.00	100.19	100.05	102.06	099.84	27.50	0.00	107.98	098.69	26.70	0.00	103.85	100.55
9 :	9.70	0.00	100.16	100.64	102.47	100.39	29.30	0.00	107.92	098.80	28.80	0.00	103.88	100.62
10 :	9.70	0.00	100.29	101.44	102.75	101.20	29.40	0.00	108.02	099.14	29.60	0.00	104.12	100.59
11 :	9.70	0.00	100.41	102.84	103.51	102.42	29.40	0.00	108.31	099.29	29.10	0.00	103.80	100.96
12 :	9.70	0.00	100.58	103.77	103.74	103.27	32.70	0.00	106.70	099.29	31.40	0.00	104.00	101.13
13 :	9.80	0.00	100.83	104.60	104.20	104.23	32.30	0.00	106.26	099.52	29.70	0.00	104.11	101.10
14 :	9.60	0.00	101.01	106.03	105.00	104.81	32.20	0.00	106.82	099.56	30.70	0.00	103.44	101.11
15 :	9.70	0.00	101.03	106.39	105.39	105.62	32.20	0.00	107.17	099.60	29.90	0.00	104.34	101.33
16 :	9.70	0.00	101.25	106.93	105.64	106.11	32.20	0.00	107.35	099.96	29.70	0.00	103.49	101.69
17 :	9.80	0.00	101.17	106.80	105.39	106.42	32.60	0.00	107.55	099.85	29.90	0.00	103.18	101.64
18 :	9.60	0.00	100.97	105.06	105.09	106.35	26.10	0.00	108.06	099.93	29.50	0.00	102.91	101.68
19 :	9.70	0.00	101.17	103.80	104.24	105.91	25.80	0.00	109.55	099.82	27.60	0.00	102.55	101.44
20 :	9.70	0.00	100.50	103.01	103.29	105.13	27.40	0.00	109.73	099.68	29.20	0.00	102.40	101.30
21 :	9.70	0.00	100.48	101.99	102.86	104.17	26.50	0.00	108.23	099.61	29.30	0.00	102.06	100.97
22 :	9.80	0.00	100.37	101.07	102.12	103.23	28.00	0.00	108.83	100.75	29.20	0.00	104.83	100.64
23 :	9.70	0.00	100.26	100.41	101.70	102.44	27.60	0.00	107.41	099.92	31.20	0.00	103.25	100.54
24 :	9.60	0.00	100.18	099.55	101.35	101.79	17.60	0.00	106.46	099.22	29.60	0.00	105.43	100.86
	LOWER MONUMENTAL			ICE HARBOR			MCNARY			PASCO				
HOUR :	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1 :	16.40	0.00	103.93	100.89	12.90	0.00	104.44	103.44	68.30	0.00	112.04	107.43	106.27	107.73
2 :	14.30	0.00	103.47	100.32	14.40	0.00	103.85	103.40	61.90	0.00	111.17	107.25	106.10	?UNDEF
3 :	15.40	0.00	103.05	100.19	10.80	0.00	102.51	103.26	61.70	0.00	110.77	109.39	106.08	?UNDEF
4 :	14.20	0.00	102.65	101.22	10.70	0.00	101.81	103.09	66.70	0.00	109.81	109.94	106.05	?UNDEF
5 :	14.10	0.00	102.45	100.54	10.80	0.00	101.35	103.06	70.40	0.00	109.07	107.82	106.01	?UNDEF
6 :	14.00	0.00	102.30	100.16	12.20	0.00	102.02	103.29	97.10	0.00	108.94	108.32	106.07	106.95
7 :	15.40	0.00	102.08	100.28	10.70	0.00	103.67	103.62	109.30	0.00	108.85	107.87	106.03	106.62
8 :	27.60	0.00	102.04	100.51	11.10	0.00	103.65	103.70	89.50	0.00	107.73	107.81	105.98	106.42
9 :	28.00	0.00	102.48	100.39	21.20	0.00	105.56	103.83	100.50	0.00	106.99	107.88	106.05	106.11
10 :	28.40	0.00	103.27	100.94	29.30	0.00	105.53	104.28	111.70	0.00	108.98	107.18	105.86	106.08
11 :	31.80	0.00	103.43	101.50	32.60	0.00	105.50	104.20	113.00	0.00	109.09	106.22	105.85	106.20
12 :	31.70	0.00	103.14	101.82	32.20	0.00	105.24	104.18	111.60	0.00	110.98	105.49	106.01	106.23
13 :	31.50	0.00	102.99	101.43	33.40	0.00	105.38	104.02	109.60	0.00	110.34	106.36	106.23	106.42
14 :	31.90	0.00	102.76	101.45	33.50	0.00	103.61	104.31	102.70	0.00	110.59	106.43	106.43	106.64
15 :	31.60	0.00	103.40	102.53	33.70	0.00	104.78	104.40	101.50	0.00	107.09	106.53	106.63	106.80
16 :	31.50	0.00	103.59	102.94	34.90	0.00	105.37	104.72	101.40	0.00	109.45	108.65	107.03	107.03
17 :	32.10	0.00	103.52	102.89	35.00	0.00	106.02	104.78	102.00	0.00	108.46	109.20	106.94	107.22
18 :	31.40	0.00	104.00	102.73	34.90	0.00	105.43	104.70	100.00	0.00	110.65	108.88	106.89	107.30
19 :	31.50	0.00	104.44	102.21	35.10	0.00	107.03	104.57	108.40	0.00	113.23	108.78	106.72	107.37
20 :	34.30	0.00	104.71	101.37	35.00	0.00	106.75	104.26	88.80	0.00	112.51	110.84	106.30	107.18
21 :	33.20	0.00	104.61	100.93	34.40	0.00	105.25	103.86	81.30	0.00	107.96	110.98	106.17	106.93
22 :	33.40	0.00	105.21	100.55	32.40	0.00	106.41	103.63	84.00	0.00	107.86	110.86	106.49	106.46
23 :	34.70	0.00	107.02	100.62	33.30	0.00	105.92	103.49	64.60	0.00	108.30	110.01	106.42	106.25
24 :	31.30	0.00	106.93	100.50	34.40	0.00	105.64	103.32	61.20	0.00	108.89	107.87	106.05	106.25

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	DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE				
HOUR :	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	:	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.
1 :	9.70	0.00	099.90	:	100.27	101.56	101.47	:	15.00	0.00	108.59	097.36	:	15.40	0.00	107.50	101.37
2 :	9.70	0.00	099.86	:	099.70	101.31	101.04	:	14.20	0.00	107.99	097.07	:	14.00	0.00	107.19	101.22
3 :	9.70	0.00	099.85	:	099.51	101.20	100.50	:	14.40	0.00	108.09	096.91	:	13.70	0.00	106.59	100.97
4 :	9.60	0.00	099.81	:	099.24	101.05	100.04	:	15.50	0.00	107.10	096.74	:	14.60	0.00	106.04	100.48
5 :	9.80	0.00	099.89	:	099.20	100.98	099.70	:	16.30	0.00	106.41	099.02	:	15.20	0.00	106.82	100.32
6 :	9.60	0.00	099.88	:	099.02	100.95	099.43	:	13.90	0.00	104.62	098.53	:	15.80	0.00	107.26	100.16
7 :	9.70	0.00	099.88	:	099.40	101.31	099.66	:	13.70	0.00	104.86	099.22	:	14.90	0.00	107.54	100.00
8 :	9.70	0.00	100.03	:	100.11	101.91	100.23	:	15.50	0.00	106.90	098.92	:	16.80	0.00	107.70	100.15
9 :	9.80	0.00	100.20	:	101.21	102.92	101.05	:	31.00	0.00	108.91	101.64	:	30.80	0.00	107.30	100.29
10 :	9.70	0.00	100.41	:	102.53	102.75	102.05	:	31.40	0.00	110.45	099.66	:	32.20	0.00	106.31	100.81
11 :	9.70	0.00	100.57	:	103.70	104.62	103.20	:	31.10	0.00	109.44	099.58	:	34.00	0.00	107.58	100.97
12 :	9.60	0.00	100.65	:	105.21	105.19	104.22	:	34.70	0.00	109.79	099.24	:	35.10	0.00	108.04	101.56
13 :	9.70	0.00	100.90	:	106.63	104.57	105.32	:	35.10	0.00	109.46	099.47	:	36.20	0.00	107.51	101.65
14 :	9.80	0.00	101.41	:	107.86	105.58	106.07	:	35.30	0.00	110.10	099.57	:	37.20	0.00	107.99	101.69
15 :	9.70	0.00	101.37	:	107.36	106.04	106.70	:	35.70	0.00	109.00	099.38	:	35.30	0.00	107.77	101.79
16 :	9.70	0.00	101.09	:	106.68	105.61	106.73	:	26.00	0.00	110.93	099.28	:	26.70	0.00	107.93	101.67
17 :	9.60	0.00	101.18	:	106.33	105.18	106.31	:	27.40	0.00	111.38	099.19	:	26.50	0.00	108.41	101.43
18 :	9.80	0.00	100.92	:	105.23	104.66	105.96	:	34.80	0.00	113.16	099.35	:	35.00	0.00	108.38	101.87
19 :	9.70	0.00	101.18	:	104.23	104.09	105.59	:	36.80	0.00	110.57	099.19	:	34.90	0.00	108.44	102.16
20 :	9.70	0.00	100.87	:	103.33	103.48	104.83	:	27.50	0.00	110.93	099.17	:	29.60	0.00	108.38	101.98
21 :	9.70	0.00	100.61	:	102.20	102.82	103.97	:	27.50	0.00	111.04	099.53	:	27.50	0.00	107.69	101.54
22 :	9.60	0.00	100.57	:	101.23	102.46	103.10	:	27.40	0.00	110.89	098.72	:	27.50	0.00	106.55	101.40
23 :	9.80	0.00	100.52	:	100.63	102.16	102.37	:	27.40	0.00	109.79	098.54	:	28.50	0.00	106.21	101.06
24 :	9.70	0.00	100.35	:	100.01												

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HOUR	DWRSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	9.80	0.00	999.62	100.12	101.07	101.45	17.80	0.00	103.65	999.21	14.80	0.00	101.19	100.53
2	9.60	0.00	999.58	999.82	101.07	100.91	14.70	0.00	102.40	998.54	13.10	0.00	101.06	100.25
3	9.70	0.00	999.57	999.38	100.86	100.47	14.30	0.00	102.29	998.09	12.90	0.00	100.33	999.93
4	9.60	0.00	999.57	999.09	100.77	100.19	14.60	0.00	101.94	998.06	12.70	0.00	100.01	999.63
5	9.60	0.00	999.50	999.07	100.71	999.74	14.70	0.00	102.70	998.79	12.80	0.00	999.46	999.33
6	9.80	0.00	999.47	998.86	100.66	999.56	14.30	0.00	103.91	999.29	12.60	0.00	100.12	999.07
7	9.70	0.00	999.54	999.11	100.84	999.64	15.60	0.00	103.71	999.41	13.70	0.00	999.84	999.13
8	9.60	0.00	999.70	100.03	101.44	100.30	26.30	0.00	104.37	101.29	26.10	0.00	100.74	999.40
9	9.60	0.00	999.74	100.78	102.51	101.13	31.40	0.00	103.71	102.51	31.70	0.00	103.05	100.25
10	9.80	0.00	999.93	102.19	102.50	102.02	31.30	0.00	104.66	100.00	31.60	0.00	102.95	100.36
11	9.60	0.00	999.99	103.49	104.06	103.16	31.50	0.00	106.35	999.77	31.50	0.00	101.65	100.57
12	9.60	0.00	100.22	104.80	104.60	104.02	32.10	0.00	107.52	999.70	31.50	0.00	104.52	100.92
13	9.60	0.00	100.31	106.23	104.22	105.08	31.50	0.00	108.27	999.62	32.80	0.00	106.37	100.96
14	9.70	0.00	100.54	107.32	105.15	105.88	31.00	0.00	107.16	999.60	31.30	0.00	107.04	101.16
15	9.80	0.00	100.63	108.24	105.52	106.48	31.60	0.00	107.51	999.73	31.50	0.00	107.68	101.61
16	9.70	0.00	100.59	108.28	105.76	106.79	31.50	0.00	107.49	999.66	36.50	0.00	108.85	101.82
17	9.60	0.00	100.61	107.95	105.52	106.91	26.40	0.00	108.12	999.60	36.10	0.00	107.16	101.77
18	9.60	0.00	100.53	106.10	104.85	106.79	25.50	0.00	106.53	999.27	36.00	0.00	107.64	101.71
19	9.80	0.00	100.61	104.58	103.90	106.26	27.20	0.00	107.14	999.02	35.80	0.00	107.29	101.57
20	9.60	0.00	100.26	103.50	103.18	105.37	29.50	0.00	107.51	998.85	30.50	0.00	107.04	101.33
21	9.60	0.00	100.23	102.45	102.66	104.23	29.70	0.00	108.57	999.26	30.40	0.00	107.17	101.21
22	9.60	0.00	100.07	101.69	102.29	103.42	29.60	0.00	108.74	998.46	30.10	0.00	108.91	101.16
23	9.70	0.00	100.04	101.12	101.98	102.74	30.00	0.00	108.72	998.34	30.10	0.00	108.07	101.17
24	9.80	0.00	100.05	100.56	101.71	102.15	29.10	0.00	107.53	998.08	23.30	0.00	107.79	101.29
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO	
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	21.50	0.00	103.90	100.52	22.10	0.00	102.72	103.18	58.10	0.00	108.68	108.87	105.95	106.99
2	14.10	0.00	103.43	100.44	10.30	0.00	103.44	103.01	58.40	0.00	109.43	109.21	105.79	106.95
3	13.90	0.00	103.96	100.28	10.00	0.00	102.03	102.73	54.60	0.00	109.67	108.96	105.51	106.80
4	13.70	0.00	103.81	100.20	10.00	0.00	100.75	102.55	54.20	0.00	109.11	108.93	105.60	106.79
5	13.80	0.00	103.77	999.88	11.50	0.00	102.44	102.53	56.30	0.00	108.81	108.44	105.29	106.70
6	13.80	0.00	104.01	999.87	10.10	0.00	103.99	102.37	53.90	0.00	108.24	108.32	105.26	106.56
7	15.40	0.00	103.96	100.35	10.80	0.00	102.65	102.60	90.30	0.00	108.99	107.97	105.60	106.35
8	28.50	0.00	103.97	101.17	25.10	0.00	104.50	103.13	135.60	0.00	110.29	107.04	106.01	106.25
9	31.20	0.00	105.42	101.64	30.50	0.00	105.02	103.86	136.70	0.00	110.32	107.20	106.16	106.38
10	32.40	0.00	105.47	102.79	32.20	0.00	104.78	104.27	121.50	0.00	110.15	107.10	106.16	106.54
11	31.00	0.00	105.52	103.16	30.70	0.00	104.14	104.18	120.60	0.00	110.79	107.02	106.39	106.73
12	31.40	0.00	105.69	103.27	30.60	0.00	104.24	104.25	104.10	0.00	111.48	107.80	106.70	106.79
13	31.40	0.00	105.92	103.37	35.10	0.00	104.98	104.73	97.10	0.00	110.15	108.51	106.83	107.15
14	31.50	0.00	106.41	103.67	34.80	0.00	106.84	104.70	89.50	0.00	109.44	108.91	107.34	107.24
15	31.50	0.00	106.01	103.67	36.40	0.00	106.16	104.66	90.10	0.00	108.73	109.85	107.88	107.66
16	37.40	0.00	106.77	103.91	34.90	0.00	105.28	104.77	115.10	0.00	111.45	110.07	107.98	107.88
17	35.30	0.00	106.06	103.67	34.70	0.00	104.54	104.81	115.80	0.00	110.15	110.83	108.18	108.34
18	36.90	0.00	106.01	103.32	36.30	0.00	106.66	104.45	116.30	0.00	110.15	110.47	107.97	108.68
19	35.50	0.00	106.03	103.11	34.80	0.00	104.92	104.38	116.50	0.00	111.36	111.73	107.62	108.54
20	35.20	0.00	105.76	102.37	35.00	0.00	105.59	104.08	117.00	0.00	114.05	110.24	107.32	108.50
21	33.10	0.00	105.50	102.03	33.70	0.00	104.96	103.81	117.10	0.00	114.65	110.49	107.34	108.48
22	34.00	0.00	105.45	101.95	34.80	0.00	105.35	103.77	97.70	0.00	114.56	109.57	107.18	108.48
23	32.20	0.00	105.03	101.44	33.40	0.00	106.84	103.67	88.20	0.00	112.09	109.30	107.16	108.34
24	19.60	0.00	105.04	101.21	32.90	0.00	106.66	103.52	71.50	0.00	109.85	109.76	107.15	108.34

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HOUR	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	6.90	0.00	101.10	099.72	101.52	101.02	15.00	0.00	109.22	099.60	14.50	0.00	105.28	101.35
2	7.00	0.00	100.81	099.39	101.37	100.63	15.00	0.00	108.13	099.35	15.30	0.00	104.49	100.94
3	7.10	0.00	100.80	099.01	101.14	100.22	15.30	0.00	106.90	099.09	16.30	0.00	104.58	100.88
4	7.00	0.00	100.95	098.78	100.99	099.91	14.40	0.00	107.16	098.92	18.20	0.00	104.24	100.75
5	7.00	0.00	100.90	098.74	100.99	099.50	16.00	0.00	106.82	099.65	16.90	0.00	103.69	100.70
6	7.60	0.00	100.81	098.54	100.88	099.33	13.50	0.00	105.79	100.01	13.60	0.00	102.40	100.48
7	9.80	0.00	100.00	099.11	101.33	099.53	13.30	0.00	106.13	099.65	20.30	0.00	103.16	100.57
8	9.60	0.00	100.00	099.89	101.58	100.15	20.60	0.00	105.97	099.79	20.70	0.00	102.48	100.85
9	9.60	0.00	100.15	100.73	102.39	101.00	25.30	0.00	106.37	100.21	25.30	0.00	102.72	101.24
10	9.60	0.00	100.19	101.87	102.42	101.94	27.70	0.00	106.72	100.39	30.00	0.00	104.25	101.43
11	9.60	0.00	100.38	103.31	103.78	103.10	29.70	0.00	106.91	100.68	30.80	0.00	105.02	102.17
12	9.80	0.00	100.45	104.72	104.35	104.12	30.40	0.00	107.73	100.98	31.00	0.00	105.28	102.21
13	9.60	0.00	100.65	106.01	104.00	104.84	29.80	0.00	109.09	101.17	30.90	0.00	105.07	102.35
14	9.60	0.00	100.67	107.17	104.88	105.41	29.80	0.00	109.04	101.36	31.80	0.00	104.46	102.41
15	9.60	0.00	100.86	107.59	105.19	106.00	31.60	0.00	109.37	101.36	30.40	0.00	104.82	102.46
16	9.60	0.00	100.88	107.53	105.21	106.36	31.40	0.00	108.73	101.96	31.70	0.00	104.06	102.52
17	9.80	0.00	100.63	106.19	104.94	106.27	32.60	0.00	109.73	101.48	33.10	0.00	104.34	102.43
18	9.60	0.00	100.39	105.14	104.38	105.83	33.40	0.00	109.79	101.52	33.70	0.00	104.00	102.33
19	9.60	0.00	100.63	104.05	103.68	105.28	33.80	0.00	109.75	101.40	33.70	0.00	103.70	102.31
20	9.60	0.00	100.07	102.87	102.93	104.72	33.90	0.00	109.33	101.10	33.60	0.00	102.89	102.04
21	9.80	0.00	100.00	101.75	102.26	103.86	34.00	0.00	108.32	102.29	33.70	0.00	103.52	101.72
22	9.60	0.00	099.93	100.99	101.97	103.11	33.70	0.00	107.71	101.25	33.80	0.00	104.49	101.49
23	9.60	0.00	099.89	100.50	101.63	102.38	34.40	0.00	107.52	100.82	33.50	0.00	103.91	101.30
24	9.60	0.00	099.84	100.00	101.29	101.85	33.40	0.00	106.44	100.64	35.00	0.00	105.38	101.27
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO	
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	17.20	0.00	104.05	101.52	18.30	0.00	103.14	103.20	58.20	0.00	109.74	109.44	106.90	106.75
2	18.10	0.00	104.08	101.64	17.90	0.00	102.58	102.89	59.50	0.00	109.81	108.58	106.97	106.62
3	16.00	0.00	104.02	101.41	19.50	0.00	102.83	102.89	73.20	0.00	109.81	108.85	107.12	106.44
4	16.50	0.00	104.11	101.39	17.90	0.00	105.07	102.73	69.00	0.00	109.83	108.70	106.93	106.28
5	17.60	0.00	104.19	101.45	17.90	0.00	105.19	102.66	70.00	0.00	108.97	108.50	106.86	106.09
6	14.30	0.00	104.23	101.36	17.90	0.00	104.40	102.76	61.70	0.00	107.68	109.07	106.79	105.89
7	19.30	0.00	104.21	101.73	18.00	0.00	103.59	103.51	64.60	0.00	107.53	109.07	107.04	105.56
8	20.40	0.00	104.21	102.29	18.10	0.00	102.86	103.24	75.00	0.00	108.44	108.76	107.16	105.55
9	23.30	0.00	104.26	102.79	18.10	0.00	103.10	103.43	85.50	0.00	110.04	108.78	107.28	105.56
10	27.90	0.00	104.39	103.58	21.10	0.00	103.72	104.14	94.70	0.00	110.48	109.19	107.33	105.58
11	32.40	0.00	104.40	103.89	19.80	0.00	102.76	103.97	96.40	0.00	110.88	108.57	107.52	105.62
12	32.70	0.00	104.64	104.76	25.70	0.00	103.33	104.44	91.30	0.00	111.05	109.01	108.07	105.96
13	32.60	0.00	104.50	104.29	30.40	0.00	105.14	104.60	90.90	0.00	110.96	109.12	108.15	105.98
14	32.80	0.00	104.14	104.36	29.10	0.00	104.94	104.83	91.00	0.00	111.17	109.85	108.37	106.19
15	33.50	0.00	103.93	104.50	33.60	0.00	105.28	105.26	86.80	0.00	109.80	110.15	108.31	106.38
16	34.40	0.00	103.85	104.14	33.60	0.00	105.05	104.69	86.90	0.00	110.49	110.87	108.50	106.60
17	34.80	0.00	103.62	104.09	34.30	0.00	104.56	104.91	87.10	0.00	110.40	110.96	108.40	106.88
18	36.50	0.00	104.77	103.73	35.70	0.00	106.88	104.57	84.30	0.00	110.70	111.24	108.48	107.05
19	38.70	0.00	104.38	103.36	37.80	0.00	106.90	104.24	85.60	0.00	110.08	111.79	108.26	107.33
20	41.20	0.00	104.20	103.43	39.50	0.00	107.29	104.14	104.60	0.00	111.13	110.58	107.99	107.44
21	38.80	0.00	104.16	102.51	37.90	0.00	106.30	103.95	106.20	0.00	111.61	110.64	107.60	107.40
22	38.40	0.00	103.94	102.11	37.90	0.00	105.01	103.72	107.20	0.00	108.70	109.48	107.62	107.32
23	38.60	0.00	104.01	102.06	37.90	0.00	105.26	103.56	104.00	0.00	110.36	110.22	107.55	107.00
24	39.30	0.00	103.71	101.99	39.40	0.00	104.93	103.40	88.70	0.00	110.85	110.14	106.96	107.00

08 JUL 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

08 JUL 2001

	DWRSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	
1	9.60	0.00	999.82	999.51	101.18	101.39	17.50	0.00	105.87	999.96	33.10	0.00	105.33	101.26	
2	9.80	0.00	999.66	999.20	100.94	100.96	17.30	0.00	106.52	999.14	18.30	0.00	104.75	100.92	
3	9.60	0.00	999.62	998.90	100.96	100.54	17.10	0.00	107.27	999.21	15.80	0.00	102.64	100.92	
4	9.60	0.00	999.69	998.70	100.72	100.08	17.10	0.00	106.63	998.86	16.30	0.00	101.92	100.43	
5	9.60	0.00	999.65	998.36	100.72	999.70	14.70	0.00	106.56	999.14	16.60	0.00	102.11	100.09	
6	9.80	0.00	999.59	998.32	100.64	999.50	13.90	0.00	105.87	100.88	14.40	0.00	101.14	999.93	
7	9.60	0.00	999.68	998.47	100.88	999.76	14.00	0.00	105.84	100.56	14.80	0.00	100.98	999.89	
8	9.60	0.00	999.81	999.14	101.22	999.99	19.40	0.00	106.73	100.05	14.90	0.00	101.38	999.85	
9	9.60	0.00	999.95	100.11	101.97	100.82	23.10	0.00	105.68	*****	15.00	0.00	101.39	999.91	
10	9.60	0.00	100.11	101.43	102.55	101.77	30.50	0.00	107.17	101.79	24.30	0.00	101.79	100.44	
11	9.80	0.00	100.31	102.87	103.91	102.82	29.80	0.00	107.23	100.78	29.20	0.00	102.65	100.57	
12	9.60	0.00	100.53	104.43	104.56	103.81	34.70	0.00	106.83	100.67	29.30	0.00	102.96	101.05	
13	9.60	0.00	100.72	105.86	104.19	104.71	35.10	0.00	106.40	100.75	34.10	0.00	103.03	101.26	
14	9.60	0.00	100.76	106.91	105.22	105.58	35.00	0.00	108.48	100.81	35.90	0.00	103.67	101.46	
15	9.60	0.00	100.86	107.64	105.77	106.17	35.60	0.00	108.79	100.89	36.20	0.00	104.54	101.58	
16	9.80	0.00	101.05	107.99	105.86	106.50	34.90	0.00	109.94	100.93	41.20	0.00	105.32	101.58	
17	9.70	0.00	101.01	107.50	105.56	106.58	34.60	0.00	110.69	100.86	40.80	0.00	104.66	101.66	
18	9.60	0.00	100.75	105.76	104.99	106.41	36.40	0.00	110.06	100.79	39.30	0.00	105.79	101.57	
19	9.60	0.00	101.01	104.76	104.20	105.90	34.80	0.00	107.98	100.67	39.20	0.00	104.97	101.58	
20	9.80	0.00	100.34	103.79	103.34	105.25	35.40	0.00	111.70	100.24	39.20	0.00	104.70	101.18	
21	9.60	0.00	100.08	102.77	102.72	104.22	34.70	0.00	110.42	101.10	40.70	0.00	105.31	100.96	
22	9.60	0.00	999.86	101.89	102.14	103.33	34.70	0.00	107.92	100.36	40.00	0.00	104.71	100.78	
23	9.60	0.00	999.82	101.18	101.74	102.63	34.80	0.00	107.23	100.21	39.00	0.00	104.39	100.59	
24	9.60	0.00	999.80	100.61	101.46	101.93	33.30	0.00	105.56	999.93	21.40	0.00	102.21	100.53	
	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT	
1	36.80	0.00	103.68	101.76	38.20	0.00	105.85	103.62	95.50	0.00	109.49	109.69	107.06	106.49	
2	18.60	0.00	103.37	101.13	30.40	0.00	105.03	103.71	78.70	0.00	108.94	109.16	106.87	106.37	
3	16.00	0.00	102.93	100.96	20.20	0.00	103.29	103.51	60.10	0.00	108.22	108.29	106.84	106.15	
4	15.80	0.00	102.61	100.87	18.20	0.00	101.90	105.96	62.00	0.00	110.14	108.04	106.48	105.80	
5	16.20	0.00	102.67	100.93	18.30	0.00	101.46	103.11	63.70	0.00	109.26	107.72	106.17	105.47	
6	13.80	0.00	102.34	100.72	14.20	0.00	101.17	103.35	61.10	0.00	109.11	107.41	105.97	105.53	
7	15.70	0.00	102.90	101.26	10.10	0.00	100.60	103.33	67.60	0.00	109.20	108.81	105.93	105.49	
8	15.00	0.00	102.71	102.34	12.60	0.00	999.08	103.15	66.70	0.00	108.89	109.06	106.15	105.37	
9	15.00	0.00	102.30	102.24	12.80	0.00	100.44	103.21	67.00	0.00	108.63	108.80	106.30	105.49	
10	26.40	0.00	102.14	102.37	14.40	0.00	100.68	103.74	67.90	0.00	108.23	108.96	106.58	105.65	
11	26.70	0.00	102.22	102.63	24.20	0.00	100.68	104.28	68.30	0.00	108.02	107.84	106.77	105.82	
12	29.00	0.00	102.20	103.11	29.50	0.00	102.76	104.73	66.70	0.00	107.39	108.96	107.22	106.11	
13	34.20	0.00	102.30	103.23	34.00	0.00	102.01	104.67	65.30	0.00	108.67	109.84	107.45	106.20	
14	36.40	0.00	102.49	103.17	36.30	0.00	103.41	104.77	64.20	0.00	108.90	110.98	107.52	106.26	
15	38.00	0.00	102.45	103.17	39.40	0.00	103.54	104.64	63.10	0.00	108.31	110.80	107.43	106.38	
16	39.30	0.00	102.52	103.00	39.40	0.00	104.03	104.44	63.90	0.00	109.96	110.19	107.44	106.41	
17	39.20	0.00	102.47	102.94	39.20	0.00	105.37	104.83	67.60	0.00	109.90	110.55	107.51	106.60	
18	39.30	0.00	102.59	102.59	39.20	0.00	105.84	104.44	64.80	0.00	111.75	108.46	107.45	106.81	
19	39.30	0.00	102.24	102.21	39.30	0.00	105.59	104.18	65.30	0.00	111.17	108.89	107.21	107.07	
20	39.90	0.00	102.99	101.64	40.90	0.00	105.31	104.01	63.90	0.00	113.18	109.28	106.93	106.91	
21	39.10	0.00	103.80	101.23	39.50	0.00	103.65	103.71	65.40	0.00	113.09	109.53	106.72	107.15	
22	39.00	0.00	103.20	101.12	39.30	0.00	103.98	103.66	64.50	0.00	111.98	109.13	106.50	107.25	
23	40.90	0.00	103.00	100.91	38.70	0.00	103.98	103.52	66.60	0.00	111.91	109.51	106.40	107.22	
24	30.80	0.00	103.52	100.87	24.40	0.00	103.79	103.36	65.00	0.00	110.12	109.28	106.25	107.22	

06 JUL 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

06 JUL 2001

	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	7.00	0.00	101.31	099.59	101.84	100.81	18.60	0.00	105.14	099.92	17.00	0.00	101.63	099.85
2	7.00	0.00	101.24	099.36	101.69	100.39	14.50	0.00	104.57	100.13	19.70	0.00	101.87	100.07
3	7.10	0.00	101.39	099.17	101.47	100.07	16.70	0.00	105.14	099.62	20.20	0.00	102.00	099.96
4	7.00	0.00	101.34	099.06	101.43	099.78	16.80	0.00	105.29	099.61	19.00	0.00	102.12	099.95
5	7.00	0.00	101.36	098.98	101.32	099.55	18.30	0.00	105.52	100.39	22.10	0.00	101.83	099.92
6	7.00	0.00	101.36	098.97	101.31	099.38	27.00	0.00	105.90	100.69	21.30	0.00	101.48	099.81
7	7.10	0.00	101.48	099.16	101.55	099.46	25.50	0.00	105.66	100.01	27.20	0.00	102.16	100.24
8	7.00	0.00	101.63	099.74	102.26	099.87	33.80	0.00	105.77	099.84	27.60	0.00	101.68	100.33
9	7.00	0.00	101.92	100.22	102.57	100.13	34.10	0.00	104.53	099.71	30.20	0.00	101.89	100.15
10	7.00	0.00	101.70	101.00	102.90	100.57	36.10	0.00	103.81	?UNDEF	31.50	0.00	101.99	100.52
11	7.00	0.00	101.81	101.19	102.79	100.90	35.70	0.00	104.03	000.00	35.00	0.00	102.17	100.81
12	7.10	0.00	101.63	102.11	103.06	101.41	35.70	0.00	104.41	013.94	35.40	0.00	102.29	101.05
13	7.00	0.00	101.90	104.35	103.44	102.40	35.70	0.00	105.42	099.89	35.30	0.00	103.43	101.23
14	7.00	0.00	102.35	106.08	104.57	103.70	35.90	0.00	106.25	100.12	35.30	0.00	103.63	101.67
15	7.00	0.00	102.38	106.95	105.42	104.53	36.00	0.00	106.73	100.12	35.90	0.00	104.72	101.99
16	7.10	0.00	102.43	107.31	105.84	105.14	36.50	0.00	106.01	100.34	35.30	0.00	105.46	101.94
17	7.00	0.00	102.35	106.90	105.79	105.45	35.80	0.00	104.94	100.27	35.10	0.00	106.62	102.13
18	7.00	0.00	102.12	104.78	105.37	105.36	35.70	0.00	104.80	100.62	36.60	0.00	106.93	102.37
19	7.00	0.00	102.35	103.59	104.57	104.96	36.10	0.00	106.41	100.47	35.10	0.00	107.50	102.52
20	7.00	0.00	101.59	102.72	103.74	104.30	37.90	0.00	108.83	100.47	35.10	0.00	107.65	102.40
21	7.10	0.00	101.51	101.97	102.96	103.30	35.50	0.00	109.07	101.24	35.90	0.00	107.78	102.49
22	7.00	0.00	101.28	101.26	102.50	102.59	33.00	0.00	109.16	101.12	34.50	0.00	107.44	102.45
23	7.00	0.00	101.13	100.61	102.05	102.02	17.00	0.00	108.09	100.71	16.20	0.00	105.84	102.30
24	7.00	0.00	101.09	100.14	101.80	101.43	15.00	0.00	109.03	100.67	15.50	0.00	105.01	101.75
	LOWER MONUMENTAL			ICE HARBOR				MCNARY				PASCO		
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	20.40	0.00	103.80	101.54	26.20	0.00	106.37	104.18	56.50	0.00	108.81	108.06	106.09	109.48
2	21.30	0.00	103.89	101.60	22.80	0.00	106.51	103.23	60.20	0.00	106.65	108.82	106.35	109.31
3	21.30	0.00	103.89	101.59	20.00	0.00	106.64	103.33	64.90	0.00	106.05	109.87	106.02	109.16
4	22.10	0.00	103.69	101.42	19.00	0.00	106.09	103.73	64.20	0.00	108.57	108.63	106.10	108.92
5	27.10	0.00	103.81	101.75	21.20	0.00	105.33	102.98	78.00	0.00	108.78	108.20	105.99	108.55
6	26.50	0.00	103.73	101.63	19.40	0.00	104.88	102.81	79.50	0.00	107.75	109.57	105.93	108.24
7	27.10	0.00	103.64	101.59	18.40	0.00	105.26	102.78	78.80	0.00	107.47	109.91	105.93	108.07
8	27.10	0.00	103.56	101.83	24.40	0.00	106.62	102.95	91.10	0.00	107.00	109.05	106.23	107.76
9	30.20	0.00	103.56	102.02	31.60	0.00	106.31	103.27	92.10	0.00	109.99	108.84	106.59	107.37
10	31.90	0.00	103.55	102.56	37.00	0.00	105.92	103.90	95.20	0.00	109.76	108.51	106.61	107.37
11	36.80	0.00	103.53	103.45	35.70	0.00	106.06	104.74	94.00	0.00	110.20	107.76	106.80	107.29
12	31.50	0.00	103.59	103.79	35.60	0.00	105.16	104.88	99.80	0.00	110.37	107.79	107.08	107.21
13	31.20	0.00	103.90	103.89	36.80	0.00	104.12	104.51	100.20	0.00	110.26	108.38	107.15	107.12
14	33.20	0.00	103.91	104.80	35.40	0.00	104.72	104.75	99.40	0.00	108.99	108.45	107.36	107.17
15	32.70	0.00	103.97	104.04	36.90	0.00	104.64	104.89	100.90	0.00	108.76	108.61	107.66	107.22
16	33.90	0.00	103.62	104.30	36.10	0.00	103.91	104.51	106.70	0.00	108.72	109.88	107.90	107.40
17	33.90	0.00	104.17	103.97	35.30	0.00	104.19	105.12	102.70	0.00	109.22	109.28	107.95	107.49
18	33.80	0.00	104.80	103.90	35.30	0.00	104.65	104.51	100.90	0.00	107.67	110.56	107.92	107.69
19	33.80	0.00	104.43	103.55	35.70	0.00	104.59	104.24	100.60	0.00	107.25	110.84	107.64	107.85
20	36.10	0.00	104.73	102.69	35.20	0.00	106.30	103.95	103.30	0.00	110.33	110.34	107.54	107.96
21	34.10	0.00	105.64	102.49	33.60	0.00	106.66	103.80	84.00	0.00	109.38	110.47	107.26	107.82
22	34.20	0.00	105.84	102.23	32.70	0.00	106.64	103.79	83.60	0.00	109.15	110.09	107.25	107.53
23	16.10	0.00	104.48	101.79	18.70	0.00	105.17	103.51	60.70	0.00	109.57	109.08	107.00	107.35
24	17.90	0.00	104.09	101.83	18.10	0.00	103.67	103.35	58.60	0.00	109.66	109.31	106.92	107.35

05 JUL 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

05 JUL 2001

	DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	
1	5.00	0.00	102.77	100.80	102.64	101.68	14.10	0.00	109.11	101.00	15.20	0.00	106.65	102.08	
2	5.00	0.00	102.63	100.68	102.43	101.19	14.20	0.00	108.68	100.54	14.50	0.00	105.27	101.52	
3	5.00	0.00	102.59	100.41	102.28	100.68	13.80	0.00	108.69	100.15	14.70	0.00	104.36	101.05	
4	5.00	0.00	102.48	100.25	102.10	100.37	13.90	0.00	108.16	99.97	13.20	0.00	103.75	100.89	
5	5.00	0.00	102.20	100.04	101.94	100.00	15.90	0.00	108.55	102.06	13.10	0.00	103.58	100.70	
6	5.30	0.00	102.41	99.77	101.73	99.70	15.60	0.00	107.27	101.64	13.40	0.00	101.79	100.39	
7	7.00	0.00	101.75	99.84	101.88	99.47	15.60	0.00	106.14	101.13	13.20	0.00	101.98	100.29	
8	7.10	0.00	101.32	99.81	101.62	99.72	16.20	0.00	105.94	101.20	13.30	0.00	101.76	100.24	
9	7.00	0.00	101.30	99.77	102.11	100.09	24.60	0.00	106.58	101.26	15.10	0.00	101.21	100.36	
10	7.00	0.00	101.37	100.01	102.31	100.31	27.30	0.00	106.01	101.50	20.90	0.00	100.87	100.68	
11	7.00	0.00	101.60	100.69	102.80	101.12	35.00	0.00	105.33	101.79	29.20	0.00	101.01	101.11	
12	7.00	0.00	101.90	102.51	103.59	102.14	35.90	0.00	105.54	102.00	30.20	0.00	101.09	101.02	
13	7.10	0.00	102.24	104.22	104.12	103.01	36.50	0.00	105.12	101.92	35.90	0.00	100.97	100.94	
14	7.00	0.00	102.27	104.40	104.95	103.83	35.90	0.00	104.61	101.92	37.70	0.00	100.63	100.95	
15	7.00	0.00	102.22	104.47	105.59	104.17	37.80	0.00	104.68	101.99	37.80	0.00	100.55	101.14	
16	7.00	0.00	102.24	106.11	105.82	104.50	36.00	0.00	104.90	101.94	36.10	0.00	100.71	101.21	
17	7.10	0.00	102.37	106.36	105.82	104.85	36.00	0.00	105.39	101.86	36.80	0.00	100.55	101.21	
18	7.00	0.00	102.29	104.37	105.56	104.94	35.70	0.00	105.75	101.70	36.80	0.00	99.95	100.98	
19	7.00	0.00	102.37	103.24	104.88	104.50	27.00	0.00	104.68	101.46	37.00	0.00	99.84	100.60	
20	7.00	0.00	101.73	102.40	103.98	103.81	25.80	0.00	104.68	100.98	38.00	0.00	99.80	100.44	
21	7.00	0.00	101.54	101.65	103.30	102.99	29.10	0.00	105.68	101.78	33.00	0.00	100.04	100.12	
22	7.10	0.00	101.47	100.90	102.84	102.20	27.30	0.00	105.18	101.28	26.60	0.00	100.83	100.05	
23	7.00	0.00	101.40	100.42	102.33	101.63	22.80	0.00	105.32	100.00	26.20	0.00	101.37	99.76	
24	7.00	0.00	101.40	100.00	102.07	101.20	17.20	0.00	105.01	100.57	25.50	0.00	102.04	99.77	
	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT	
1	14.50	0.00	105.48	101.88	20.00	0.00	106.19	103.84	61.90	0.00	108.64	108.19	107.17	107.97	
2	14.10	0.00	104.18	101.76	11.10	0.00	105.47	103.63	63.50	0.00	109.50	108.34	106.96	107.66	
3	15.50	0.00	103.75	101.98	10.10	0.00	104.05	103.30	65.10	0.00	109.59	107.68	106.64	107.56	
4	13.80	0.00	103.68	102.33	9.90	0.00	103.24	103.16	57.10	0.00	109.56	107.32	106.51	107.13	
5	13.70	0.00	103.24	101.59	11.50	0.00	101.54	102.99	63.70	0.00	108.97	107.32	106.11	106.92	
6	15.50	0.00	102.93	101.43	10.00	0.00	101.12	102.92	79.00	0.00	108.62	106.82	105.93	106.62	
7	13.70	0.00	102.74	101.46	10.00	0.00	101.47	103.99	73.80	0.00	109.09	106.62	105.83	106.43	
8	13.70	0.00	102.65	102.59	10.00	0.00	102.88	103.85	93.40	0.00	109.03	106.84	105.90	106.35	
9	13.70	0.00	102.64	102.47	10.10	0.00	101.60	103.97	102.60	0.00	108.08	106.55	105.86	106.43	
10	15.40	0.00	102.61	102.71	10.70	0.00	101.71	104.42	99.90	0.00	108.34	106.42	106.17	106.55	
11	20.50	0.00	102.63	102.99	20.10	0.00	101.96	105.02	93.30	0.00	108.21	106.56	106.32	106.79	
12	29.00	0.00	102.92	103.46	30.40	0.00	102.96	104.94	90.90	0.00	108.01	106.87	106.46	107.27	
13	35.20	0.00	102.74	103.55	31.00	0.00	102.44	104.95	96.40	0.00	107.72	107.20	106.52	107.54	
14	36.90	0.00	102.71	104.57	34.70	0.00	103.58	104.97	98.70	0.00	107.97	107.15	106.76	107.89	
15	35.30	0.00	102.94	103.87	34.80	0.00	103.23	104.63	101.80	0.00	108.87	106.73	107.14	108.37	
16	35.30	0.00	103.13	103.55	34.80	0.00	104.83	104.51	98.50	0.00	109.60	107.64	107.21	108.89	
17	35.20	0.00	103.27	103.65	34.80	0.00	104.40	104.65	100.30	0.00	109.36	108.13	107.31	109.35	
18	35.80	0.00	103.79	103.29	34.90	0.00	105.31	104.65	102.90	0.00	109.02	107.93	107.41	109.85	
19	36.50	0.00	104.10	102.96	35.00	0.00	108.08	104.40	101.90	0.00	110.62	109.05	107.44	110.25	
20	37.40	0.00	103.68	102.20	34.90	0.00	108.34	104.26	95.90	0.00	110.10	109.12	107.13	110.40	
21	35.70	0.00	103.75	102.36	34.90	0.00	105.88	103.96	84.60	0.00	109.65	108.44	106.96	110.46	
22	35.80	0.00	104.10	101.84	28.70	0.00	107.56	103.67	83.80	0.00	109.29	107.81	106.62	110.21	
23	31.60	0.00	103.50	101.75	31.50	0.00	108.16	103.67	68.60	0.00	109.49	108.39	106.12	110.06	
24	30.50	0.00	103.76	101.70	34.40	0.00	108.44	106.87	62.20	0.00	110.64	108.12	105.99	110.06	

04 JUL 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

04 JUL 2001

	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	5.00	0.00	102.17	100.50	102.51	101.45	16.90	0.00	109.79	102.24	14.60	0.00	109.36	102.99
2	5.00	0.00	102.14	100.39	102.41	101.15	17.00	0.00	109.09	101.58	22.30	0.00	109.56	102.82
3	5.00	0.00	102.08	100.07	102.24	100.69	16.80	0.00	109.34	101.28	14.80	0.00	109.42	102.67
4	5.00	0.00	102.22	099.86	101.84	100.32	16.90	0.00	109.07	101.24	14.10	0.00	109.24	102.21
5	5.00	0.00	102.20	099.85	101.76	100.03	15.30	0.00	108.58	102.26	14.20	0.00	109.07	101.84
6	5.00	0.00	102.34	099.81	101.70	099.81	14.80	0.00	109.96	101.72	14.10	0.00	109.13	101.67
7	5.00	0.00	102.47	100.10	101.99	100.09	13.40	0.00	108.43	101.87	14.10	0.00	108.37	101.65
8	5.00	0.00	102.75	100.64	102.72	100.73	18.70	0.00	109.27	102.23	14.30	0.00	108.38	101.51
9	5.00	0.00	102.76	101.33	103.94	101.71	19.70	0.00	109.28	102.89	14.10	0.00	108.26	101.63
10	5.00	0.00	102.92	102.58	104.02	102.74	27.20	0.00	111.46	102.96	20.60	0.00	108.83	101.97
11	5.00	0.00	103.10	104.07	105.94	103.71	30.60	0.00	112.21	103.02	32.40	0.00	109.02	103.07
12	5.00	0.00	103.31	105.55	106.74	104.73	30.60	0.00	112.52	103.29	33.00	0.00	108.68	103.30
13	5.00	0.00	103.79	106.86	106.27	105.42	30.60	0.00	112.45	103.25	33.00	0.00	108.60	103.19
14	5.10	0.00	103.97	107.99	107.48	105.97	34.80	0.00	112.61	103.45	36.60	0.00	108.67	103.24
15	5.00	0.00	103.49	108.97	107.36	106.62	36.90	0.00	112.82	103.63	37.60	0.00	109.78	103.62
16	5.00	0.00	103.67	108.96	107.88	106.81	35.80	0.00	112.77	103.98	36.20	0.00	110.71	103.55
17	5.00	0.00	103.77	108.70	107.48	106.93	35.30	0.00	112.78	103.84	34.50	0.00	109.87	103.81
18	5.00	0.00	103.75	106.03	107.23	106.76	35.30	0.00	113.15	103.80	36.10	0.00	110.23	103.61
19	5.00	0.00	103.77	104.84	106.34	106.24	35.30	0.00	113.45	103.53	34.90	0.00	112.34	103.55
20	5.00	0.00	103.03	103.78	105.28	105.36	37.20	0.00	113.82	103.42	34.30	0.00	112.19	103.25
21	5.00	0.00	102.72	102.98	104.38	104.27	35.50	0.00	113.54	104.33	34.00	0.00	109.70	102.91
22	5.00	0.00	102.54	102.13	103.78	103.31	34.60	0.00	113.73	103.98	34.00	0.00	109.93	102.72
23	5.00	0.00	102.40	101.55	103.23	102.55	27.50	0.00	111.01	103.41	32.70	0.00	110.35	102.77
24	5.00	0.00	102.73	101.19	103.00	102.06	14.80	0.00	109.68	102.00	22.70	0.00	108.82	102.42
	LOWER MONUMENTAL			ICE HARBOR			MCNARY			PASCO				
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	23.80	0.00	110.65	103.03	46.00	0.00	109.48	103.77	88.80	0.00	112.86	112.68	107.79	107.84
2	14.00	0.00	107.53	103.12	29.00	0.00	106.47	103.71	71.30	0.00	111.39	112.67	107.38	107.68
3	13.60	0.00	107.22	102.52	13.10	0.00	103.50	104.07	84.10	0.00	111.45	112.62	107.20	107.66
4	14.00	0.00	106.32	102.09	11.60	0.00	104.14	103.94	75.60	0.00	111.05	111.93	107.16	107.50
5	13.80	0.00	105.85	101.74	10.00	0.00	103.05	103.37	102.80	0.00	110.73	111.64	107.23	107.34
6	13.90	0.00	105.14	101.74	10.00	0.00	102.27	103.12	101.20	0.00	110.51	111.91	107.38	107.20
7	13.90	0.00	105.69	101.84	10.00	0.00	102.07	103.12	109.10	0.00	111.04	111.47	107.50	107.01
8	13.90	0.00	107.16	101.98	11.50	0.00	100.72	103.43	158.00	0.00	111.75	111.57	107.46	106.99
9	13.90	0.00	108.89	102.85	11.60	0.00	103.65	104.47	150.90	0.00	111.79	111.58	107.57	107.24
10	13.90	0.00	108.64	103.32	11.60	0.00	104.77	104.81	148.80	0.00	112.04	111.08	107.75	107.58
11	21.30	0.00	110.17	103.55	14.60	0.00	105.19	104.75	138.90	0.00	112.41	110.37	107.84	108.05
12	36.70	0.00	110.53	103.67	20.80	0.00	106.33	106.04	136.50	0.00	111.85	110.68	107.84	108.34
13	39.40	0.00	110.72	104.16	32.90	0.00	107.42	106.39	115.30	0.00	110.90	110.89	108.08	108.53
14	38.10	0.00	110.89	104.42	33.50	0.00	108.30	105.66	98.30	0.00	111.53	110.28	108.30	108.63
15	38.20	0.00	110.86	104.39	37.80	0.00	108.37	105.31	105.60	0.00	111.90	110.10	108.37	108.86
16	39.30	0.00	108.63	105.98	36.60	0.00	108.91	105.25	106.00	0.00	111.47	110.19	108.33	108.94
17	37.60	0.00	107.97	105.06	36.70	0.00	108.99	105.66	106.10	0.00	110.74	110.71	108.46	109.04
18	38.40	0.00	107.50	104.29	39.30	0.00	109.13	105.38	105.40	0.00	111.41	110.41	108.72	109.00
19	36.90	0.00	107.96	103.91	40.90	0.00	110.14	105.07	97.20	0.00	112.24	112.05	108.63	109.09
20	36.70	0.00	106.45	103.45	40.90	0.00	110.05	104.78	86.00	0.00	112.46	110.92	108.37	*****
21	35.30	0.00	108.08	103.10	38.70	0.00	107.62	104.59	82.30	0.00	111.35	110.64	108.13	108.86
22	34.90	0.00	108.63	102.85	38.60	0.00	106.74	104.33	81.60	0.00	112.01	110.22	108.39	000.00
23	30.80	0.00	109.14	102.73	34.20	0.00	108.31	104.21	78.40	0.00	109.69	109.83	108.21	108.22
24	20.90	0.00	108.39	102.38	24.50	0.00	107.06	104.02	72.40	0.00	109.94	108.43	107.76	108.22

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WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

03 JUL 2001

	DWORSHAK			STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	5.00	0.00	101.91	100.24	101.76	100.51	16.30	0.00	110.78	100.99	17.00	0.00	109.27	103.63
2	5.00	0.00	101.88	099.95	101.60	100.12	14.30	0.00	109.98	100.32	14.80	0.00	109.01	103.22
3	5.00	0.00	101.89	099.77	101.37	099.64	14.70	0.00	109.68	099.88	14.80	0.00	108.97	102.79
4	5.00	0.00	101.81	099.51	101.23	099.36	14.30	0.00	110.59	099.71	14.90	0.00	109.10	102.24
5	5.00	0.00	101.66	099.45	101.04	099.07	14.50	0.00	111.53	099.57	15.20	0.00	109.70	102.07
6	5.00	0.00	101.73	099.38	101.03	098.91	18.10	0.00	111.59	101.00	15.10	0.00	109.94	101.87
7	5.00	0.00	102.01	099.62	101.30	099.13	18.30	0.00	110.95	100.96	15.10	0.00	109.88	102.11
8	5.00	0.00	102.15	099.91	101.87	099.89	18.80	0.00	110.96	101.50	15.80	0.00	109.49	102.11
9	5.00	0.00	102.32	100.80	103.09	100.91	25.00	0.00	111.22	101.53	17.30	0.00	109.28	102.29
10	5.00	0.00	102.69	101.92	103.09	101.89	25.50	0.00	110.99	101.59	17.50	0.00	109.46	102.71
11	5.00	0.00	102.76	103.28	105.20	103.05	25.50	0.00	111.20	101.86	17.90	0.00	109.09	102.94
12	4.90	0.00	103.25	104.69	106.13	104.07	25.70	0.00	111.11	102.35	20.10	0.00	109.09	103.29
13	5.00	0.00	103.65	106.31	105.46	105.04	30.90	0.00	112.29	102.70	27.70	0.00	109.61	103.64
14	5.00	0.00	103.73	107.91	106.97	105.80	30.90	0.00	114.27	103.08	34.00	0.00	109.53	103.96
15	5.00	0.00	103.80	108.27	107.48	106.42	30.90	0.00	115.14	103.28	34.50	0.00	109.90	104.21
16	5.00	0.00	103.80	108.77	107.43	106.61	34.30	0.00	115.20	103.36	35.60	0.00	111.59	104.29
17	5.00	0.00	103.74	108.31	107.14	106.70	30.80	0.00	114.91	103.81	39.50	0.00	111.93	104.23
18	5.00	0.00	103.65	106.09	106.80	106.50	32.60	0.00	114.92	103.61	39.50	0.00	111.71	103.84
19	4.90	0.00	103.74	105.00	105.92	105.83	31.50	0.00	114.13	103.58	41.00	0.00	111.96	103.69
20	5.00	0.00	102.55	103.80	104.89	104.85	32.70	0.00	113.09	103.39	41.70	0.00	111.40	103.85
21	5.00	0.00	102.34	102.83	104.16	103.71	33.20	0.00	113.44	103.39	42.60	0.00	111.37	103.41
22	4.90	0.00	102.30	102.08	103.53	103.01	33.40	0.00	112.97	103.56	45.00	0.00	111.51	103.15
23	5.00	0.00	102.22	101.47	103.04	102.34	33.00	0.00	111.74	103.53	41.10	0.00	110.96	102.98
24	5.00	0.00	102.12	100.94	102.74	101.93	18.00	0.00	110.95	103.02	22.10	0.00	110.41	103.12
	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO	
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	27.20	0.00	107.14	102.33	30.80	0.00	103.56	103.37	72.00	0.00	110.21	109.99	106.43	107.82
2	20.60	0.00	106.88	102.12	30.70	0.00	107.90	103.27	72.20	0.00	111.07	110.37	106.26	107.74
3	14.40	0.00	106.28	101.77	19.20	0.00	105.37	103.12	79.60	0.00	110.71	112.34	106.39	107.60
4	13.90	0.00	106.18	101.77	18.50	0.00	104.84	103.03	90.20	0.00	111.08	111.14	106.36	107.44
5	15.50	0.00	105.97	101.42	10.80	0.00	104.91	103.51	94.10	0.00	111.30	109.65	106.19	107.19
6	14.00	0.00	106.33	102.27	10.00	0.00	103.63	103.08	138.10	0.00	111.51	108.01	106.08	106.83
7	14.00	0.00	106.82	102.42	11.90	0.00	102.41	102.63	144.90	0.00	111.33	108.90	106.19	106.55
8	14.00	0.00	107.33	101.90	12.20	0.00	100.13	102.60	152.50	0.00	111.58	109.79	106.47	106.49
9	14.20	0.00	107.37	102.38	13.50	0.00	103.10	102.84	156.90	0.00	106.98	110.06	106.86	106.68
10	16.00	0.00	109.42	103.01	12.10	0.00	103.38	103.94	153.50	0.00	111.76	110.26	107.34	106.81
11	14.60	0.00	108.84	103.16	12.40	0.00	102.64	104.37	152.50	0.00	112.35	111.17	107.69	107.31
12	14.70	0.00	109.03	103.90	12.20	0.00	101.92	104.72	151.80	0.00	113.00	110.33	107.90	107.76
13	21.00	0.00	109.41	103.69	13.40	0.00	101.53	105.10	152.30	0.00	114.31	109.75	108.03	108.01
14	28.60	0.00	109.92	103.90	22.00	0.00	105.76	105.90	138.80	0.00	113.16	110.79	108.37	108.13
15	36.90	0.00	109.56	104.17	31.90	0.00	106.79	105.00	137.30	0.00	109.71	112.61	108.47	108.23
16	38.00	0.00	109.54	104.28	38.30	0.00	107.54	104.58	136.30	0.00	109.88	113.07	108.69	108.21
17	42.80	0.00	110.65	104.34	43.20	0.00	108.52	104.53	118.00	0.00	111.66	110.46	108.60	108.27
18	45.20	0.00	111.93	104.35	44.90	0.00	107.12	104.36	116.70	0.00	113.83	111.66	108.36	108.15
19	43.00	0.00	111.93	103.93	46.60	0.00	107.24	104.22	116.20	0.00	114.53	113.44	108.08	108.28
20	47.10	0.00	113.35	103.77	49.30	0.00	106.81	104.07	138.90	0.00	114.83	113.22	107.87	108.30
21	47.50	0.00	113.62	103.43	49.80	0.00	110.31	103.96	123.40	0.00	114.81	113.29	108.01	108.19
22	58.80	0.00	112.29	103.53	56.50	0.00	111.45	103.98	122.90	0.00	114.48	112.49	107.95	108.00
23	58.20	0.00	112.35	103.50	55.20	0.00	111.17	103.83	123.90	0.00	113.86	112.77	107.96	107.99
24	39.70	0.00	111.84	103.30	46.50	0.00	108.39	103.79	92.10	0.00	113.86	112.91	107.73	107.99

02 JUL 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

02 JUL 2001

	DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	
1	1.80	0.00	102.03	100.05	100.90	099.53	15.00	0.00	104.68	098.63	14.60	0.00	101.04	101.16	
2	1.80	0.00	102.02	100.18	100.61	099.13	17.00	0.00	104.89	098.46	17.20	0.00	102.37	100.85	
3	1.80	0.00	101.99	099.97	100.30	098.68	17.30	0.00	104.92	098.49	17.70	0.00	102.97	100.83	
4	1.80	0.00	102.11	099.95	100.19	098.39	17.20	0.00	107.41	098.53	18.30	0.00	103.06	100.77	
5	1.80	0.00	102.01	099.65	099.97	097.92	18.10	0.00	108.00	098.61	18.20	0.00	102.98	100.84	
6	3.70	0.00	104.10	099.61	099.86	097.75	18.90	0.00	106.64	099.25	19.30	0.00	103.27	100.68	
7	5.20	0.00	107.86	099.55	100.23	098.26	29.30	0.00	107.12	099.75	23.80	0.00	103.86	101.14	
8	5.20	0.00	101.28	100.61	102.33	099.17	26.10	0.00	107.39	099.73	26.60	0.00	104.26	101.68	
9	5.20	0.00	100.92	101.65	103.83	100.24	25.40	0.00	107.91	100.00	26.50	0.00	104.67	102.10	
10	5.20	0.00	101.12	102.93	102.95	101.66	25.30	0.00	109.20	100.47	27.60	0.00	105.68	102.42	
11	5.10	0.00	101.47	104.04	104.24	102.78	25.80	0.00	109.75	100.78	26.00	0.00	105.02	102.66	
12	5.20	0.00	101.64	105.09	105.05	103.98	25.10	0.00	111.57	101.08	26.30	0.00	105.35	103.16	
13	5.00	0.00	102.40	106.09	104.52	104.80	24.90	0.00	111.63	101.54	26.20	0.00	107.01	103.24	
14	5.00	0.00	103.51	106.75	105.71	105.26	24.90	0.00	110.57	101.88	26.20	0.00	107.50	103.55	
15	5.00	0.00	103.86	107.32	106.22	105.61	26.60	0.00	111.59	101.64	27.80	0.00	108.09	104.02	
16	5.00	0.00	103.77	107.38	106.92	105.76	25.50	0.00	110.87	102.13	26.10	0.00	107.77	103.96	
17	5.00	0.00	103.71	107.12	106.56	105.56	26.50	0.00	112.01	101.52	24.80	0.00	107.83	104.04	
18	5.00	0.00	103.63	105.55	106.10	105.19	28.40	0.00	112.19	101.71	25.20	0.00	108.34	103.84	
19	5.00	0.00	103.71	104.33	105.35	104.69	27.10	0.00	114.91	101.17	24.90	0.00	108.89	103.71	
20	4.90	0.00	102.62	103.35	104.52	104.14	31.00	0.00	115.82	100.99	29.90	0.00	108.87	103.69	
21	5.00	0.00	102.29	102.45	103.75	103.26	29.80	0.00	114.67	101.50	31.40	0.00	111.08	103.95	
22	4.90	0.00	102.18	101.71	103.14	102.35	30.50	0.00	114.49	101.57	31.80	0.00	111.25	103.81	
23	5.00	0.00	102.11	101.15	102.54	101.68	31.60	0.00	113.56	101.68	34.10	0.00	111.11	103.82	
24	5.00	0.00	101.95	100.72	102.25	101.10	31.50	0.00	112.17	101.72	32.40	0.00	110.43	103.79	
	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT	
1	21.40	0.00	103.43	101.30	20.40	0.00	101.20	102.06	82.60	0.00	107.23	109.05	105.24	107.71	
2	16.60	0.00	103.85	101.28	18.00	0.00	101.05	102.12	67.40	0.00	106.71	109.02	105.33	107.68	
3	17.20	0.00	103.65	101.20	19.60	0.00	102.18	101.98	69.10	0.00	106.80	109.15	105.26	107.50	
4	17.70	0.00	103.35	101.06	18.20	0.00	101.76	102.08	65.40	0.00	106.64	109.24	105.10	107.06	
5	17.40	0.00	103.15	100.98	18.20	0.00	101.44	102.03	77.50	0.00	106.78	108.51	105.19	106.77	
6	18.60	0.00	103.08	100.90	18.10	0.00	102.71	102.49	131.10	0.00	108.06	108.71	105.13	106.46	
7	24.70	0.00	103.85	102.06	18.10	0.00	102.71	102.11	156.20	0.00	108.76	107.76	105.24	106.11	
8	27.60	0.00	103.85	102.38	19.90	0.00	103.19	102.46	155.20	0.00	108.88	108.01	105.21	106.10	
9	27.00	0.00	103.45	102.17	24.40	0.00	102.54	102.83	156.70	0.00	108.64	108.27	105.49	106.10	
10	28.50	0.00	103.49	102.51	24.70	0.00	103.45	104.03	157.00	0.00	108.10	108.29	105.66	106.43	
11	27.20	0.00	103.39	104.09	24.70	0.00	104.08	103.49	140.00	0.00	108.64	108.61	105.95	106.61	
12	26.80	0.00	104.24	103.25	24.90	0.00	104.07	103.62	118.00	0.00	108.45	107.74	106.28	106.89	
13	28.50	0.00	105.22	105.09	24.50	0.00	103.62	104.01	115.60	0.00	108.42	108.22	106.65	107.21	
14	27.00	0.00	105.56	104.07	24.50	0.00	103.53	104.00	115.80	0.00	107.67	108.43	?UNDEF	107.43	
15	27.60	0.00	106.02	104.22	24.40	0.00	104.79	104.41	116.00	0.00	108.11	109.30	?UNDEF	107.63	
16	27.20	0.00	106.95	104.17	24.50	0.00	104.12	104.28	116.90	0.00	108.59	108.90	?UNDEF	107.94	
17	27.20	0.00	107.41	104.02	24.50	0.00	103.63	104.23	117.70	0.00	109.70	110.43	?UNDEF	108.33	
18	27.00	0.00	107.17	103.97	26.00	0.00	103.16	103.99	117.30	0.00	111.17	110.22	107.43	108.35	
19	27.00	0.00	106.29	103.71	24.60	0.00	103.72	103.78	116.60	0.00	110.98	110.89	107.41	108.24	
20	26.70	0.00	106.26	103.19	25.30	0.00	103.44	104.33	116.00	0.00	110.77	110.65	107.29	108.39	
21	27.40	0.00	106.74	102.88	25.70	0.00	105.00	103.18	112.20	0.00	112.60	110.84	106.99	108.36	
22	30.50	0.00	106.52	102.46	31.30	0.00	105.51	103.13	106.60	0.00	111.97	111.32	106.64	108.29	
23	33.50	0.00	107.59	102.55	33.40	0.00	105.42	107.65	88.00	0.00	110.29	109.72	106.36	108.17	
24	34.50	0.00	107.69	102.64	33.40	0.00	104.34	103.22	78.60	0.00	110.24	109.81	106.24	108.17	

01 JUL 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

01 JUL 2001

HOUR	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.80	0.00	102.45	100.86	101.21	099.89	29.30	0.00	101.87	099.09	31.40	0.00	107.80	103.26
2	1.80	0.00	102.38	100.56	100.84	099.61	27.80	0.00	101.54	098.87	25.20	0.00	107.94	103.05
3	1.80	0.00	102.31	100.34	100.53	099.11	18.30	0.00	100.82	098.72	20.30	0.00	106.38	102.75
4	1.80	0.00	102.40	100.15	100.29	098.83	17.00	0.00	100.58	098.32	19.40	0.00	106.19	102.36
5	1.80	0.00	102.32	100.07	100.04	098.48	15.00	0.00	100.78	097.96	16.80	0.00	105.88	101.93
6	1.80	0.00	102.22	099.85	100.12	098.27	15.90	0.00	100.05	098.43	16.20	0.00	104.21	101.57
7	1.80	0.00	102.57	001.49	100.34	098.63	16.10	0.00	099.58	098.50	16.10	0.00	103.78	101.37
8	1.80	0.00	102.99	101.24	101.03	099.49	16.50	0.00	099.93	098.89	15.90	0.00	103.65	101.48
9	1.80	0.00	103.64	102.23	101.99	100.52	28.70	0.00	100.34	098.97	28.30	0.00	103.53	102.00
10	1.80	0.00	104.34	103.31	101.99	101.73	28.80	0.00	101.03	099.12	30.80	0.00	103.27	102.14
11	1.80	0.00	104.87	104.12	103.47	102.70	28.80	0.00	100.75	099.26	29.00	0.00	102.47	102.17
12	1.80	0.00	105.36	104.95	104.43	103.61	29.00	0.00	100.09	099.48	28.90	0.00	102.01	102.09
13	1.80	0.00	105.66	105.40	104.25	104.49	29.00	0.00	100.01	099.61	30.60	0.00	102.02	102.01
14	1.80	0.00	106.11	105.59	105.41	105.24	29.40	0.00	100.66	099.54	29.20	0.00	102.37	102.31
15	1.80	0.00	106.17	105.81	106.05	105.70	28.80	0.00	101.08	099.48	30.60	0.00	102.30	102.54
16	1.80	0.00	106.06	105.69	106.35	106.03	30.40	0.00	100.59	099.50	31.10	0.00	102.48	102.43
17	1.80	0.00	105.82	105.58	106.15	105.91	28.60	0.00	100.78	099.54	29.00	0.00	102.10	102.62
18	1.80	0.00	105.25	104.77	105.59	105.52	26.70	0.00	101.47	099.45	25.00	0.00	102.25	102.22
19	1.80	0.00	105.82	103.81	104.93	104.90	25.20	0.00	101.05	099.45	24.70	0.00	102.41	101.99
20	1.80	0.00	103.58	103.13	103.89	103.88	24.90	0.00	102.01	098.90	24.70	0.00	101.77	101.84
21	1.80	0.00	102.86	102.29	103.14	102.65	20.00	0.00	102.26	098.63	24.70	0.00	101.70	101.54
22	1.80	0.00	102.51	101.46	102.40	101.64	17.40	0.00	103.52	098.70	22.80	0.00	102.08	101.38
23	1.80	0.00	102.21	100.89	101.60	100.77	19.10	0.00	103.63	098.51	22.10	0.00	101.49	101.36
24	1.80	0.00	102.03	100.32	101.15	100.09	16.80	0.00	104.02	098.69	17.00	0.00	101.43	101.32
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO	
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	29.60	0.00	104.74	102.59	28.90	0.00	102.03	103.13	79.40	0.00	110.32	106.40	105.17	107.45
2	27.10	0.00	103.84	102.44	24.20	0.00	101.67	102.91	80.20	0.00	109.96	106.19	104.98	107.23
3	21.10	0.00	104.20	101.93	19.00	0.00	100.91	102.70	79.00	0.00	109.49	105.88	104.96	107.07
4	19.20	0.00	103.61	101.74	18.70	0.00	100.19	102.50	74.70	0.00	109.21	105.79	104.87	106.56
5	16.70	0.00	103.42	101.81	19.60	0.00	100.41	102.28	69.70	0.00	108.57	105.84	104.67	106.11
6	16.80	0.00	103.27	101.56	18.00	0.00	099.14	102.37	69.90	0.00	107.81	105.80	104.62	105.80
7	16.20	0.00	103.23	101.81	18.00	0.00	098.84	102.37	88.80	0.00	107.91	105.74	104.83	105.61
8	17.00	0.00	103.36	101.99	18.20	0.00	100.78	103.21	95.70	0.00	107.49	105.97	105.05	105.42
9	26.60	0.00	103.35	102.37	30.10	0.00	101.29	102.90	91.80	0.00	106.99	106.38	105.43	105.41
10	28.40	0.00	102.71	102.79	29.40	0.00	101.22	103.48	106.80	0.00	106.87	106.66	105.74	105.74
11	30.10	0.00	103.37	103.01	30.00	0.00	101.00	103.24	108.00	0.00	107.44	106.36	105.79	106.02
12	29.40	0.00	104.11	103.86	29.70	0.00	100.97	103.24	93.60	0.00	108.41	106.65	105.85	106.48
13	27.90	0.00	104.55	103.25	29.00	0.00	100.24	103.33	93.60	0.00	108.88	106.21	105.90	106.93
14	28.00	0.00	102.87	103.51	29.10	0.00	100.72	103.67	95.10	0.00	109.21	105.98	105.99	107.31
15	29.50	0.00	103.86	103.82	29.10	0.00	102.10	103.58	100.00	0.00	109.42	105.95	106.06	107.59
16	27.80	0.00	103.10	103.89	29.00	0.00	101.77	103.50	100.70	0.00	109.58	105.87	105.98	107.81
17	29.30	0.00	102.89	103.72	29.10	0.00	101.93	103.43	101.30	0.00	108.34	106.47	105.92	108.13
18	27.40	0.00	103.05	103.36	26.10	0.00	102.11	103.26	101.30	0.00	108.34	106.34	105.95	108.28
19	26.30	0.00	103.09	103.01	25.20	0.00	102.13	103.04	101.00	0.00	108.40	106.54	106.13	108.32
20	26.50	0.00	103.08	102.42	25.10	0.00	101.47	103.04	101.50	0.00	108.44	108.01	105.97	108.19
21	26.30	0.00	102.89	102.03	26.60	0.00	103.04	102.59	101.30	0.00	108.53	110.09	105.99	108.01
22	26.50	0.00	103.50	101.75	25.10	0.00	102.47	102.41	101.70	0.00	109.09	109.21	105.61	108.00
23	26.50	0.00	103.49	101.75	25.10	0.00	101.53	102.39	100.50	0.00	108.53	107.67	105.42	107.95
24	26.30	0.00	102.97	101.69	24.80	0.00	100.93	102.37	97.90	0.00	108.37	108.43	105.40	107.95

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HOUR	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.80	0.00	102.31	101.36	101.47	100.27	17.20	0.00	099.97	098.39	14.60	0.00	106.10	102.23
2	1.80	0.00	102.27	101.22	101.09	099.91	14.80	0.00	099.74	098.29	14.20	0.00	106.38	101.96
3	1.80	0.00	102.27	100.93	100.90	099.50	14.40	0.00	099.35	098.03	14.20	0.00	108.25	101.96
4	1.80	0.00	102.37	100.81	100.75	099.19	14.30	0.00	099.37	097.73	14.40	0.00	107.64	101.66
5	1.80	0.00	102.21	100.62	100.43	098.94	14.50	0.00	099.46	097.72	14.70	0.00	106.51	101.67
6	1.80	0.00	102.33	100.60	100.37	098.78	14.30	0.00	099.26	098.50	14.40	0.00	106.47	101.63
7	1.80	0.00	102.82	100.83	100.64	099.13	14.40	0.00	099.23	098.55	14.40	0.00	106.14	101.58
8	1.80	0.00	103.39	101.39	101.07	099.92	14.30	0.00	098.96	098.82	14.60	0.00	104.97	101.88
9	1.80	0.00	103.86	102.23	101.96	101.04	17.80	0.00	099.03	098.91	19.50	0.00	105.57	102.31
10	1.80	0.00	104.49	103.32	102.41	102.36	18.00	0.00	098.95	098.00	21.30	0.00	106.81	102.77
11	1.80	0.00	104.97	104.22	103.79	103.33	18.10	0.00	098.86	099.26	19.80	0.00	106.49	102.83
12	1.80	0.00	105.36	105.00	104.35	104.33	18.40	0.00	100.01	099.45	21.50	0.00	105.81	103.32
13	1.80	0.00	105.79	105.58	104.78	105.29	18.10	0.00	099.82	099.68	19.70	0.00	107.77	103.40
14	1.80	0.00	106.17	106.23	105.64	105.90	18.70	0.00	101.00	099.76	20.00	0.00	106.66	103.77
15	1.80	0.00	106.40	106.32	106.23	106.49	33.10	0.00	102.13	099.99	33.70	0.00	107.54	104.13
16	1.80	0.00	106.08	106.57	106.54	106.71	32.30	0.00	103.45	100.05	34.50	0.00	106.67	104.34
17	1.80	0.00	105.56	106.48	106.19	106.77	32.60	0.00	104.81	099.84	34.90	0.00	106.29	104.38
18	1.80	0.00	105.26	105.82	105.79	106.30	31.90	0.00	103.07	099.70	34.20	0.00	107.43	104.27
19	1.80	0.00	105.56	104.84	105.05	105.59	32.00	0.00	108.66	099.70	34.10	0.00	107.94	104.27
20	1.80	0.00	104.19	103.97	104.26	104.22	32.10	0.00	105.67	099.61	35.70	0.00	109.27	103.98
21	1.80	0.00	103.35	103.11	103.47	103.11	32.40	0.00	103.75	099.41	34.10	0.00	111.05	103.88
22	1.80	0.00	102.89	102.35	102.84	101.89	32.30	0.00	108.31	099.84	33.50	0.00	109.23	103.90
23	1.80	0.00	102.68	101.84	102.17	101.01	32.90	0.00	104.20	099.33	33.90	0.00	108.71	103.67
24	1.80	0.00	102.71	101.18	101.65	100.38	29.80	0.00	103.98	099.13	31.80	0.00	107.86	103.48
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO	
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	14.20	0.00	104.02	102.05	10.20	0.00	103.16	102.83	89.40	0.00	111.35	109.46	105.44	108.22
2	15.30	0.00	103.85	101.92	9.90	0.00	102.76	102.82	87.90	0.00	108.00	109.95	105.47	108.07
3	14.30	0.00	103.97	102.37	10.10	0.00	101.99	102.73	87.20	0.00	109.33	110.14	105.45	107.85
4	13.90	0.00	103.96	101.71	10.10	0.00	101.43	103.65	87.60	0.00	109.90	110.39	105.57	107.70
5	13.80	0.00	104.04	101.39	10.10	0.00	099.39	103.23	88.60	0.00	109.17	110.05	105.41	107.41
6	13.80	0.00	104.04	101.79	11.60	0.00	100.33	103.07	115.30	0.00	108.49	109.71	105.40	107.13
7	14.00	0.00	104.02	101.98	10.10	0.00	101.39	103.32	126.30	0.00	108.48	109.67	105.50	106.92
8	14.00	0.00	104.04	102.29	10.20	0.00	101.61	103.71	127.60	0.00	108.09	109.64	105.65	106.79
9	19.10	0.00	104.60	102.73	11.90	0.00	102.45	103.94	127.50	0.00	107.09	109.89	106.06	106.78
10	21.60	0.00	104.87	103.23	12.70	0.00	103.25	104.59	128.90	0.00	106.59	109.33	106.26	106.85
11	21.50	0.00	105.78	104.02	22.90	0.00	102.75	104.99	128.50	0.00	109.40	108.20	106.71	107.19
12	20.00	0.00	105.99	105.40	23.60	0.00	102.43	104.98	128.30	0.00	110.68	108.53	106.93	107.64
13	19.90	0.00	105.15	104.57	24.10	0.00	103.07	105.05	128.30	0.00	111.08	108.42	107.09	108.05
14	20.20	0.00	105.73	104.32	23.80	0.00	104.26	105.23	128.00	0.00	112.34	108.67	107.19	108.40
15	32.60	0.00	105.43	104.55	33.90	0.00	105.55	105.10	128.70	0.00	110.99	108.68	107.10	108.46
16	35.40	0.00	106.45	104.66	33.50	0.00	106.01	105.45	129.80	0.00	107.59	110.24	107.20	108.67
17	32.70	0.00	106.91	105.47	33.40	0.00	106.75	104.93	129.30	0.00	108.18	113.63	107.48	108.70
18	32.90	0.00	105.84	104.39	33.60	0.00	106.20	104.69	128.80	0.00	108.48	110.61	107.39	108.75
19	33.00	0.00	105.39	104.05	38.80	0.00	104.58	104.55	108.90	0.00	108.99	109.49	107.10	108.62
20	38.90	0.00	108.89	103.61	40.80	0.00	104.82	104.19	98.50	0.00	110.36	108.62	106.75	108.58
21	39.40	0.00	106.61	103.41	39.00	0.00	107.44	104.17	98.30	0.00	111.73	108.12	106.43	108.37
22	39.50	0.00	104.86	103.12	38.80	0.00	104.83	103.64	89.70	0.00	111.69	106.69	105.88	108.21
23	40.00	0.00	104.78	103.07	38.60	0.00	103.66	103.47	89.90	0.00	111.30	106.32	105.67	107.95
24	33.90	0.00	104.71	102.85	29.90	0.00	102.23	103.38	90.00	0.00	110.26	106.71	105.55	107.95

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HOUR	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
	TOTAL DISCH.	SPILL	GAS %SAT	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH.	SPILL	GAS FB	%SAT TAILW.	TOTAL DISCH.	SPILL	GAS FB	%SAT TAILW.
	KCFS	KCFS	TAILW.	%SAT	%SAT	%SAT	KCFS	KCFS			KCFS	KCFS		
1	1.70	0.00	104.45	100.73	101.07	100.19	16.60	0.00	102.18	100.03	14.50	0.00	101.99	100.92
2	1.70	0.00	104.53	100.54	100.96	099.75	14.90	0.00	101.49	099.85	14.60	0.00	102.20	100.89
3	1.70	0.00	104.55	100.40	100.84	099.48	15.00	0.00	101.20	099.73	14.50	0.00	102.00	100.73
4	1.70	0.00	104.55	100.42	100.72	099.09	14.90	0.00	101.19	099.59	14.70	0.00	101.97	100.86
5	1.70	0.00	104.38	100.26	100.57	098.78	15.30	0.00	101.04	099.43	14.40	0.00	101.29	100.72
6	1.70	0.00	104.50	100.22	100.47	098.78	15.70	0.00	100.32	099.95	15.00	0.00	101.12	100.72
7	1.70	0.00	105.07	100.48	100.63	099.17	29.10	0.00	100.88	100.20	29.80	0.00	101.74	101.08
8	1.70	0.00	105.65	100.94	101.11	100.12	29.90	0.00	100.90	099.93	30.60	0.00	102.44	101.47
9	1.70	0.00	106.25	102.09	102.04	101.08	29.80	0.00	101.42	099.96	33.00	0.00	103.65	101.74
10	1.70	0.00	107.19	102.93	102.11	102.22	30.00	0.00	102.16	100.16	34.10	0.00	103.32	102.10
11	1.70	0.00	107.90	103.67	103.67	103.37	30.80	0.00	101.66	100.33	33.30	0.00	102.97	102.13
12	1.70	0.00	108.13	104.30	104.34	104.27	30.40	0.00	101.54	100.44	33.40	0.00	103.47	102.36
13	1.70	0.00	108.22	104.91	104.38	105.14	30.60	0.00	101.76	100.64	35.40	0.00	103.57	102.56
14	1.70	0.00	108.19	105.58	105.43	105.93	30.80	0.00	102.86	100.63	37.10	0.00	103.84	102.80
15	1.70	0.00	108.23	105.80	105.97	106.39	32.40	0.00	104.03	100.55	36.20	0.00	103.99	102.96
16	1.70	0.00	108.16	106.11	106.35	106.69	35.80	0.00	104.22	100.29	38.80	0.00	103.91	103.08
17	1.80	0.00	107.66	106.16	106.02	106.47	33.90	0.00	104.40	100.50	39.10	0.00	103.86	103.15
18	1.80	0.00	106.34	105.26	105.69	106.14	33.90	0.00	102.57	100.12	39.10	0.00	104.45	103.21
19	1.80	0.00	107.66	104.58	104.97	105.35	33.90	0.00	101.27	099.88	38.90	0.00	105.69	103.07
20	1.80	0.00	103.76	103.93	104.24	104.24	33.70	0.00	101.93	099.49	36.20	0.00	106.61	102.97
21	1.80	0.00	102.89	103.04	103.40	102.87	34.30	0.00	102.97	099.36	34.60	0.00	105.30	102.94
22	1.80	0.00	102.56	102.48	102.68	101.87	33.80	0.00	103.32	099.32	36.10	0.00	104.95	102.77
23	1.80	0.00	102.43	102.06	102.18	101.22	33.70	0.00	100.55	099.05	21.10	0.00	104.78	102.61
24	1.80	0.00	102.56	101.63	101.74	100.67	30.80	0.00	100.42	098.81	16.10	0.00	104.65	102.47
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO	
	TOTAL DISCH.	SPILL	GAS FB	%SAT TAILW.	TOTAL DISCH.	SPILL	GAS FB	%SAT TAILW.	TOTAL DISCH.	SPILL	GAS OR FB	%SAT WA FB	%SAT TAILW.	GAS % SAT
	KCFS	KCFS			KCFS	KCFS			KCFS	KCFS				
1	13.80	0.00	102.38	100.52	13.00	0.00	101.13	102.09	98.20	0.00	104.84	103.16	103.08	106.30
2	14.10	0.00	102.34	100.46	13.10	0.00	101.10	102.08	94.90	0.00	104.77	103.29	102.71	105.98
3	13.90	0.00	102.04	100.42	13.40	0.00	099.72	102.06	135.10	0.00	105.53	103.29	102.87	105.86
4	13.80	0.00	102.43	100.28	12.90	0.00	098.71	102.08	101.20	0.00	105.28	103.30	102.91	105.60
5	15.30	0.00	102.57	100.28	10.10	0.00	100.04	102.21	123.50	0.00	105.14	103.13	103.01	105.35
6	13.70	0.00	102.54	101.26	9.90	0.00	101.36	102.35	126.60	0.00	103.31	103.16	103.17	105.21
7	14.30	0.00	102.66	100.70	10.30	0.00	100.78	102.49	140.40	0.00	102.50	103.10	103.38	105.20
8	28.30	0.00	102.83	101.32	18.90	0.00	101.99	102.73	143.30	0.00	102.12	104.19	103.51	105.17
9	36.10	0.00	102.82	101.82	31.10	0.00	103.44	103.53	157.90	0.00	103.77	105.48	103.66	105.30
10	36.10	0.00	103.55	102.07	40.00	0.00	103.25	104.06	159.90	0.00	104.43	105.43	103.93	105.61
11	36.00	0.00	103.08	102.70	42.30	0.00	103.58	103.26	160.00	0.00	106.23	106.84	104.19	105.99
12	36.10	0.00	103.78	103.07	42.30	0.00	103.37	103.75	161.10	0.00	106.56	107.16	104.52	106.31
13	39.30	0.00	102.99	103.20	40.90	0.00	103.69	104.50	160.40	0.00	107.72	107.14	104.87	106.77
14	40.10	0.00	103.89	103.53	41.50	0.00	103.67	104.76	149.90	0.00	107.64	108.14	105.21	107.14
15	39.40	0.00	104.74	103.82	42.30	0.00	103.35	103.98	149.20	0.00	108.11	110.18	105.42	107.61
16	39.50	0.00	107.78	103.94	40.80	0.00	103.02	104.38	150.20	0.00	109.51	107.88	105.63	107.82
17	39.50	0.00	106.26	103.88	40.70	0.00	102.68	103.87	151.60	0.00	110.26	107.07	105.73	108.13
18	40.90	0.00	104.70	104.36	39.40	0.00	103.04	103.87	152.00	0.00	112.20	107.26	105.61	108.18
19	42.90	0.00	105.00	103.84	39.40	0.00	102.11	103.83	151.20	0.00	110.86	106.35	105.53	108.35
20	41.80	0.00	104.04	102.97	41.50	0.00	102.92	103.54	128.50	0.00	109.86	106.25	105.53	108.48
21	38.70	0.00	103.90	102.78	37.70	0.00	103.73	103.39	118.80	0.00	110.51	107.82	105.42	108.48
22	33.20	0.00	104.23	102.55	34.30	0.00	104.72	103.06	117.50	0.00	111.92	110.00	105.24	108.50
23	23.20	0.00	103.67	102.26	20.30	0.00	103.96	103.65	117.30	0.00	112.20	108.93	105.37	108.37
24	16.10	0.00	103.96	102.22	12.90	0.00	103.04	102.94	97.90	0.00	111.39	109.47	105.49	108.37

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	DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR :	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.		
1 :	1.70	0.00	103.53	100.36	100.66	099.50	15.20	0.00	102.56	101.22	20.70	0.00	106.54	102.49		
2 :	1.60	0.00	103.50	100.20	100.46	099.18	14.70	0.00	102.43	100.92	21.00	0.00	106.15	102.35		
3 :	1.60	0.00	103.46	100.00	100.41	099.05	15.30	0.00	102.24	100.47	15.70	0.00	105.54	102.17		
4 :	1.70	0.00	103.38	099.97	100.27	098.85	15.30	0.00	102.17	100.19	15.30	0.00	104.71	101.90		
5 :	1.60	0.00	103.47	099.92	100.16	098.70	16.50	0.00	101.85	100.36	15.20	0.00	104.14	101.69		
6 :	1.70	0.00	103.54	099.77	100.20	098.58	26.10	0.00	101.79	101.23	15.60	0.00	103.82	101.49		
7 :	1.70	0.00	104.01	099.95	100.55	098.63	26.10	0.00	101.62	100.98	24.90	0.00	104.99	101.86		
8 :	1.70	0.00	104.23	100.39	100.97	099.88	26.30	0.00	101.98	101.07	30.00	0.00	105.07	101.91		
9 :	1.70	0.00	104.80	101.48	102.10	100.76	30.00	0.00	101.99	100.89	30.90	0.00	104.33	102.05		
10 :	1.70	0.00	105.41	102.36	102.62	102.14	28.30	0.00	101.83	101.03	30.40	0.00	104.45	101.90		
11 :	1.70	0.00	105.85	103.13	103.61	102.96	28.40	0.00	101.49	101.17	30.50	0.00	104.12	102.06		
12 :	1.60	0.00	106.46	104.06	104.19	103.80	28.50	0.00	103.08	101.46	31.50	0.00	104.12	102.10		
13 :	1.70	0.00	106.73	104.45	104.55	104.61	28.30	0.00	103.24	101.52	31.70	0.00	104.67	102.23		
14 :	1.60	0.00	106.80	105.02	104.99	105.04	28.90	0.00	103.79	101.52	33.20	0.00	104.63	102.37		
15 :	1.60	0.00	106.79	105.16	104.79	105.60	28.50	0.00	103.43	101.40	32.40	0.00	104.86	102.54		
16 :	1.60	0.00	106.41	105.18	104.56	105.33	28.30	0.00	102.91	101.56	33.30	0.00	104.24	102.45		
17 :	1.60	0.00	106.44	104.75	104.65	105.19	28.30	0.00	102.17	101.32	31.60	0.00	103.49	102.48		
18 :	1.70	0.00	105.76	104.08	104.02	105.23	30.00	0.00	102.04	101.11	31.50	0.00	102.82	102.36		
19 :	1.70	0.00	106.44	103.39	103.62	104.73	31.90	0.00	102.47	101.24	31.50	0.00	102.68	102.13		
20 :	1.70	0.00	104.32	102.85	103.24	103.78	29.70	0.00	102.20	101.04	29.40	0.00	103.20	101.85		
21 :	1.70	0.00	103.63	102.24	102.68	102.80	29.90	0.00	101.89	100.80	29.40	0.00	102.78	101.54		
22 :	1.70	0.00	103.29	101.77	102.10	101.84	29.80	0.00	101.27	100.87	29.30	0.00	102.64	101.38		
23 :	1.70	0.00	103.12	101.39	101.58	101.14	29.50	0.00	100.84	100.60	15.50	0.00	102.32	101.21		
24 :	1.70	0.00	104.06	100.98	101.27	100.58	29.80	0.00	100.98	100.47	15.90	0.00	102.31	100.93		
	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR :	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT		
1 :	15.60	0.00	102.65	999.23	9.90	0.00	100.49	103.69	119.90	0.00	103.49	104.21	104.26	105.81		
2 :	13.90	0.00	101.65	999.45	10.10	0.00	100.21	103.16	122.00	0.00	103.17	104.18	104.35	105.37		
3 :	14.00	0.00	101.62	999.31	11.60	0.00	100.44	103.79	138.70	0.00	103.14	104.26	104.19	105.05		
4 :	15.40	0.00	101.71	999.24	10.00	0.00	100.27	103.48	144.90	0.00	102.98	104.25	103.90	104.89		
5 :	13.90	0.00	101.55	999.73	10.10	0.00	099.67	103.15	168.70	0.00	103.09	104.07	103.83	104.47		
6 :	14.30	0.00	101.24	999.56	11.60	0.00	099.45	103.10	147.30	0.00	103.03	103.75	103.67	104.15		
7 :	14.30	0.00	100.95	999.52	10.40	0.00	098.91	103.24	144.40	0.00	102.97	103.71	103.50	103.98		
8 :	21.30	0.00	100.53	999.64	13.30	0.00	098.09	104.17	145.50	0.00	102.56	103.96	103.44	103.96		
9 :	29.40	0.00	100.33	100.00	26.00	0.00	098.84	103.32	131.90	0.00	102.16	103.66	103.53	103.88		
10 :	32.50	0.00	100.41	100.27	34.40	0.00	100.41	103.74	121.00	0.00	102.16	103.57	103.56	104.01		
11 :	32.90	0.00	100.08	100.44	33.60	0.00	101.26	103.89	120.50	0.00	102.08	103.45	103.63	104.16		
12 :	38.40	0.00	100.04	100.72	38.90	0.00	101.37	103.23	115.30	0.00	103.28	103.45	103.66	104.35		
13 :	38.10	0.00	100.64	100.74	39.20	0.00	101.28	102.99	115.00	0.00	105.15	103.90	103.79	104.77		
14 :	37.30	0.00	100.63	100.64	39.00	0.00	100.90	103.44	116.40	0.00	105.41	103.74	103.91	104.93		
15 :	37.20	0.00	100.69	100.89	41.10	0.00	100.97	103.32	117.80	0.00	105.21	103.81	104.08	104.82		
16 :	37.00	0.00	101.23	100.00	38.70	0.00	100.49	103.71	118.10	0.00	105.46	104.00	104.26	105.57		
17 :	37.00	0.00	102.63	101.64	38.70	0.00	100.24	103.23	118.60	0.00	105.62	104.04	104.15	105.94		
18 :	37.10	0.00	103.09	101.56	38.40	0.00	101.31	103.17	118.60	0.00	106.21	103.93	104.21	106.39		
19 :	37.70	0.00	103.35	101.51	38.10	0.00	102.14	103.00	113.90	0.00	106.24	103.95	103.94	106.52		
20 :	34.80	0.00	102.88	101.01	34.50	0.00	102.24	102.85	113.20	0.00	106.24	103.89	103.68	106.82		
21 :	34.60	0.00	102.76	100.80	34.60	0.00	101.42	102.69	114.00	0.00	105.26	103.86	103.49	106.73		
22 :	28.70	0.00	102.72	100.53	29.20	0.00	101.88	102.48	113.00	0.00	105.07	103.53	103.15	106.66		
23 :	16.50	0.00	102.28	100.24	18.50	0.00	102.90	102.41	114.00	0.00	105.29	103.50	103.13	106.49		
24 :	14.40	0.00	102.56	100.32	17.70	0.00	101.39	102.22	113.10	0.00	105.21	103.32	103.32	106.49		

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WALLA WALLA DISTRICT HYDRO PROJECTS
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HOUR	DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	
1	1.70	0.00	103.57	100.63	101.51	099.78	15.10	0.00	106.28	102.83	13.20	0.00	106.19	103.45		
2	1.70	0.00	103.55	100.25	101.09	099.70	14.90	0.00	105.42	102.44	13.10	0.00	106.57	103.19		
3	1.70	0.00	103.55	099.85	100.83	099.70	14.90	0.00	105.01	102.44	14.60	0.00	107.45	103.08		
4	1.70	0.00	103.43	099.16	100.71	099.72	15.10	0.00	104.74	102.19	13.00	0.00	107.33	102.99		
5	1.70	0.00	103.32	099.42	100.59	099.68	15.80	0.00	104.33	102.71	13.40	0.00	107.18	102.99		
6	1.70	0.00	103.29	099.29	100.49	099.77	23.80	0.00	104.09	102.45	14.10	0.00	107.33	102.86		
7	1.70	0.00	103.45	099.09	100.42	099.77	25.30	0.00	103.89	102.13	25.50	0.00	108.56	103.17		
8	1.70	0.00	103.59	099.09	100.54	099.76	29.40	0.00	104.13	102.27	25.10	0.00	109.03	103.36		
9	1.60	0.00	103.85	099.46	100.82	099.70	29.40	0.00	104.21	102.34	25.80	0.00	108.85	103.30		
10	1.70	0.00	103.93	100.15	100.74	099.78	31.30	0.00	104.14	102.54	31.50	0.00	108.91	103.53		
11	1.70	0.00	104.10	100.42	101.72	099.76	32.40	0.00	104.10	102.35	29.40	0.00	108.63	103.44		
12	1.70	0.00	104.80	100.87	102.45	099.65	39.30	0.00	104.04	102.12	40.50	0.00	108.96	103.55		
13	1.60	0.00	000.00	101.63	103.42	099.76	35.10	0.00	103.91	102.16	40.50	0.00	109.27	103.75		
14	1.70	0.00	107.72	101.75	104.21	099.74	30.00	0.00	103.84	102.23	41.90	0.00	109.32	103.92		
15	1.70	0.00	105.98	101.57	102.68	099.68	29.50	0.00	103.99	103.03	40.40	0.00	109.47	104.23		
16	1.60	0.00	104.76	102.33	103.02	099.77	17.60	0.00	104.72	103.50	41.20	0.00	109.69	104.15		
17	1.60	0.00	104.67	102.55	103.34	000.00	17.40	0.00	105.33	103.57	20.00	0.00	109.85	104.43		
18	1.60	0.00	104.78	102.31	102.54	102.70	17.10	0.00	105.18	103.09	16.70	0.00	110.32	104.61		
19	1.70	0.00	104.67	102.50	102.19	102.39	19.00	0.00	104.79	102.51	13.10	0.00	109.59	103.63		
20	1.70	0.00	104.07	102.35	101.92	101.93	20.70	0.00	104.24	102.46	14.40	0.00	108.99	103.23		
21	1.60	0.00	103.61	101.89	101.55	101.16	26.40	0.00	103.92	104.77	12.70	0.00	108.58	102.95		
22	1.60	0.00	103.49	101.48	101.21	100.57	28.10	0.00	103.59	102.39	13.00	0.00	108.05	102.67		
23	1.60	0.00	103.54	101.15	100.99	100.07	27.70	0.00	103.06	102.12	20.50	0.00	107.48	102.35		
24	1.70	0.00	103.52	100.69	100.71	099.69	26.30	0.00	102.74	101.67	22.30	0.00	107.14	102.59		
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT		
1	14.20	0.00	104.65	100.83	11.80	0.00	101.26	103.87	89.70	0.00	107.32	108.47	106.50	105.69		
2	13.90	0.00	103.51	100.23	12.90	0.00	100.08	103.78	70.40	0.00	107.27	108.22	106.39	105.42		
3	13.90	0.00	102.73	100.11	11.40	0.00	101.62	103.81	70.00	0.00	107.35	108.38	106.32	105.47		
4	13.90	0.00	102.65	099.91	11.40	0.00	101.09	103.69	88.40	0.00	107.34	107.85	106.18	105.35		
5	13.90	0.00	102.87	099.85	11.40	0.00	101.17	103.89	112.40	0.00	107.16	107.79	106.35	105.19		
6	14.30	0.00	103.30	099.71	12.00	0.00	101.80	104.10	120.50	0.00	106.18	107.65	106.10	105.21		
7	22.60	0.00	103.78	099.71	20.70	0.00	102.31	104.62	119.30	0.00	105.84	107.65	106.35	105.11		
8	26.20	0.00	104.38	100.44	31.30	0.00	101.88	104.52	118.80	0.00	105.50	107.60	106.46	105.09		
9	26.60	0.00	104.67	100.72	30.10	0.00	101.30	104.58	119.40	0.00	104.72	107.61	106.43	105.04		
10	31.60	0.00	104.31	101.16	34.40	0.00	102.08	104.21	121.40	0.00	105.00	107.39	106.24	105.00		
11	31.90	0.00	104.16	101.16	33.30	0.00	101.78	104.34	106.00	0.00	105.00	107.11	106.08	105.22		
12	41.10	0.00	104.13	101.38	40.10	0.00	101.76	104.53	116.80	0.00	105.00	106.68	106.20	105.34		
13	40.70	0.00	104.77	101.74	40.70	0.00	101.78	104.85	119.60	0.00	105.93	106.82	106.46	105.68		
14	39.40	0.00	105.71	102.21	41.50	0.00	102.35	104.82	110.90	0.00	105.80	107.06	106.59	106.15		
15	40.40	0.00	105.45	102.33	40.90	0.00	103.62	104.93	110.30	0.00	105.36	106.58	106.53	106.50		
16	40.10	0.00	105.65	102.40	40.80	0.00	102.71	104.88	111.00	0.00	105.24	107.68	106.58	106.78		
17	39.60	0.00	105.41	102.38	40.80	0.00	101.96	104.74	110.30	0.00	105.04	107.56	106.68	106.89		
18	40.20	0.00	105.10	101.86	40.40	0.00	101.72	104.41	109.50	0.00	105.41	106.56	106.47	106.90		
19	15.30	0.00	105.22	101.86	25.00	0.00	101.73	104.22	109.20	0.00	105.43	106.31	106.08	106.82		
20	13.70	0.00	106.05	101.03	19.70	0.00	101.62	103.97	121.10	0.00	105.56	106.02	105.54	106.80		
21	14.00	0.00	105.23	100.31	13.60	0.00	100.78	103.76	121.90	0.00	105.16	105.25	105.70	106.82		
22	13.70	0.00	103.03	099.41	11.50	0.00	101.58	103.51	121.10	0.00	105.01	104.66	104.76	106.66		
23	13.90	0.00	102.88	099.49	9.90	0.00	101.75	103.41	121.10	0.00	104.54	104.72	104.24	106.41		
24	13.90	0.00	103.05	099.29	10.00	0.00	100.93	103.87	120.50	0.00	104.11	104.45	104.21	106.41		

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WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

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HOUR	DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.70	0.00	102.64	099.99	101.35	099.73	40.90	0.00	107.99	103.76	45.40	0.00	108.06	103.31	
2	1.70	0.00	102.75	099.97	101.17	099.57	41.60	0.00	107.33	103.94	44.20	0.00	107.31	103.45	
3	1.70	0.00	102.68	099.76	100.97	099.39	29.50	0.00	106.70	103.73	27.30	0.00	106.74	103.18	
4	1.70	0.00	102.67	099.58	100.75	099.22	27.80	0.00	106.28	103.73	27.00	0.00	106.40	103.38	
5	1.70	0.00	102.69	099.44	100.57	099.10	27.90	0.00	106.16	104.38	32.30	0.00	106.15	103.41	
6	1.70	0.00	102.77	099.40	100.52	099.06	27.50	0.00	105.74	103.69	30.30	0.00	106.15	103.70	
7	1.70	0.00	102.92	099.54	100.64	099.30	27.40	0.00	105.47	103.53	30.20	0.00	106.13	103.66	
8	1.70	0.00	103.18	099.97	100.99	099.57	30.00	0.00	105.33	103.54	30.70	0.00	106.09	103.65	
9	1.70	0.00	103.62	100.54	101.42	099.85	30.80	0.00	105.02	103.65	30.00	0.00	106.32	104.01	
10	1.70	0.00	104.15	101.24	101.80	100.26	30.40	0.00	105.32	103.82	34.60	0.00	106.87	104.05	
11	1.70	0.00	104.73	101.93	102.36	100.42	30.30	0.00	105.78	103.84	35.10	0.00	107.15	104.20	
12	1.60	0.00	105.35	102.68	103.52	100.63	30.20	0.00	106.04	103.87	35.10	0.00	108.03	104.35	
13	1.70	0.00	105.69	103.54	103.92	100.36	27.90	0.00	106.74	104.41	36.50	0.00	107.93	104.70	
14	1.70	0.00	106.31	103.74	104.52	100.18	27.20	0.00	107.34	104.72	32.60	0.00	109.48	105.02	
15	1.70	0.00	106.25	104.12	104.70	100.12	27.20	0.00	108.62	104.77	31.90	0.00	108.85	104.89	
16	1.70	0.00	106.41	104.57	104.88	099.97	27.20	0.00	109.32	104.70	30.70	0.00	000.00	103.20	
17	1.70	0.00	106.02	104.88	105.06	099.91	31.80	0.00	109.41	104.78	32.00	0.00	108.85	104.76	
18	1.70	0.00	105.77	104.57	104.87	099.88	34.90	0.00	000.00	104.72	32.40	0.00	108.65	104.94	
19	1.70	0.00	106.02	103.73	103.98	099.72	35.90	0.00	110.96	000.00	31.80	0.00	109.30	104.80	
20	1.70	0.00	105.04	103.26	103.37	099.74	36.90	0.00	107.51	103.93	34.00	0.00	111.40	104.63	
21	1.60	0.00	104.51	102.53	102.68	099.77	30.10	0.00	107.55	104.10	34.00	0.00	114.22	104.60	
22	1.60	0.00	103.93	101.68	102.26	099.77	26.40	0.00	108.84	104.65	32.00	0.00	113.75	104.26	
23	1.70	0.00	103.67	101.26	101.85	099.67	15.30	0.00	108.20	104.56	20.50	0.00	111.76	104.07	
24	1.70	0.00	103.69	101.04	101.57	099.66	15.30	0.00	107.51	103.60	15.90	0.00	108.95	103.98	
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT	
1	49.00	0.00	105.60	101.99	24.10	0.00	103.73	104.67	100.30	0.00	107.46	107.40	106.62	104.91	
2	44.90	0.00	105.45	102.16	41.10	0.00	104.70	105.01	115.80	0.00	107.55	107.02	106.39	104.65	
3	44.40	0.00	105.31	102.13	41.80	0.00	104.52	104.58	96.70	0.00	107.97	106.74	106.22	104.67	
4	44.40	0.00	105.20	102.11	42.00	0.00	104.95	104.29	95.40	0.00	107.55	106.72	106.20	104.67	
5	32.80	0.00	105.33	102.13	44.70	0.00	104.92	104.39	94.30	0.00	107.24	106.71	105.93	104.64	
6	30.60	0.00	104.97	101.95	33.80	0.00	104.09	104.29	94.60	0.00	107.24	106.60	106.05	104.60	
7	30.60	0.00	104.56	101.89	31.60	0.00	102.99	104.29	130.50	0.00	106.80	106.81	106.27	104.46	
8	30.80	0.00	104.56	101.86	32.30	0.00	102.29	105.00	134.00	0.00	106.00	106.36	106.10	104.42	
9	32.40	0.00	104.67	102.03	31.60	0.00	102.40	105.24	134.50	0.00	106.10	106.61	106.11	104.38	
10	33.30	0.00	104.41	102.71	31.70	0.00	102.64	107.04	134.40	0.00	106.80	107.01	106.26	104.53	
11	35.20	0.00	104.56	102.72	35.50	0.00	103.08	105.19	135.00	0.00	106.99	108.00	106.45	104.98	
12	34.70	0.00	104.93	102.91	34.30	0.00	102.44	105.21	133.50	0.00	107.78	109.23	106.74	105.21	
13	34.70	0.00	105.59	103.38	35.80	0.00	101.80	105.96	133.00	0.00	108.94	109.30	107.11	105.73	
14	34.50	0.00	106.41	103.29	34.90	0.00	102.90	105.53	140.50	0.00	108.83	109.38	107.40	106.03	
15	37.50	0.00	105.39	103.50	35.70	0.00	103.22	105.88	144.40	0.00	109.48	109.98	107.61	106.35	
16	34.70	0.00	105.72	103.75	34.20	0.00	103.06	105.30	143.10	0.00	109.57	110.44	107.70	106.54	
17	34.50	0.00	105.13	103.43	34.10	0.00	103.28	105.37	160.10	0.00	110.18	110.13	107.78	106.63	
18	35.00	0.00	104.90	102.98	34.20	0.00	102.25	105.12	161.40	0.00	110.89	111.22	107.68	106.70	
19	34.30	0.00	104.66	102.64	35.80	0.00	102.15	104.88	161.80	0.00	110.22	111.16	107.40	106.68	
20	33.90	0.00	106.23	102.41	34.90	0.00	102.77	104.69	162.50	0.00	109.88	109.94	107.32	106.64	
21	33.90	0.00	106.86	101.90	34.20	0.00	102.49	104.66	162.90	0.00	109.15	109.60	107.25	106.51	
22	33.50	0.00	105.06	101.56	33.70	0.00	102.42	104.29	161.00	0.00	108.88	108.43	107.02	106.25	
23	26.70	0.00	105.25	101.32	25.10	0.00	102.05	104.09	157.50	0.00	109.04	108.17	107.02	106.01	
24	22.80	0.00	104.80	101.01	19.90	0.00	102.30	103.94	119.60	0.00	108.43	108.23	106.83	106.01	

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WALLA WALLA DISTRICT HYDRO PROJECTS
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	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.70	0.00	101.87	098.81	099.91	097.89	15.10	0.00	104.61	101.49	13.30	0.00	101.60	100.05
2	1.70	0.00	101.96	098.62	099.86	097.64	15.10	0.00	104.52	101.26	13.30	0.00	101.50	099.97
3	1.70	0.00	102.00	098.54	099.76	097.52	15.00	0.00	104.20	101.23	13.20	0.00	101.34	099.89
4	1.70	0.00	102.01	098.37	099.65	097.36	15.40	0.00	104.17	101.00	13.30	0.00	101.43	099.87
5	1.70	0.00	102.09	098.10	099.57	097.16	15.80	0.00	103.99	101.79	13.20	0.00	101.12	099.71
6	1.70	0.00	102.05	098.02	099.61	097.21	15.20	0.00	103.90	101.71	13.00	0.00	101.07	099.40
7	1.70	0.00	101.85	098.65	099.82	097.72	15.50	0.00	103.97	101.80	13.60	0.00	100.91	099.65
8	1.70	0.00	102.54	099.34	100.36	098.92	25.10	0.00	104.11	101.93	28.00	0.00	101.15	100.28
9	1.70	0.00	103.20	100.86	101.20	100.50	26.40	0.00	104.36	102.22	30.80	0.00	101.44	100.69
10	1.70	0.00	103.93	101.20	101.51	?UNDEF	29.40	0.00	104.97	103.20	36.00	0.00	101.36	101.05
11	1.70	0.00	103.97	101.97	102.88	000.00	33.60	0.00	105.86	103.39	40.80	0.00	101.41	101.24
12	1.70	0.00	104.37	103.01	103.49	104.18	32.50	0.00	105.82	103.86	41.30	0.00	101.78	101.61
13	1.70	0.00	105.41	103.92	103.82	105.11	27.80	0.00	106.32	103.85	39.60	0.00	101.87	101.71
14	1.70	0.00	106.07	104.40	104.53	105.63	29.20	0.00	107.92	104.35	41.80	0.00	102.81	101.79
15	1.70	0.00	106.31	104.93	105.01	106.13	29.20	0.00	108.99	104.37	33.20	0.00	106.12	102.30
16	1.70	0.00	106.04	104.48	105.33	106.14	25.40	0.00	108.84	103.95	30.70	0.00	106.91	102.41
17	1.70	0.00	105.75	104.14	105.39	105.99	26.00	0.00	108.63	104.18	27.60	0.00	107.65	102.49
18	1.70	0.00	105.38	103.63	104.98	105.38	26.60	0.00	109.01	103.85	26.40	0.00	107.59	102.54
19	1.70	0.00	105.75	103.30	104.10	104.30	25.90	0.00	108.77	103.74	26.40	0.00	108.16	102.64
20	1.70	0.00	104.20	102.30	103.58	103.12	52.50	0.00	108.13	103.77	27.90	0.00	108.62	102.68
21	1.70	0.00	103.50	101.56	102.89	101.92	55.50	0.00	109.33	104.21	26.60	0.00	108.77	102.69
22	1.70	0.00	103.13	100.87	102.36	101.12	54.20	0.00	109.76	104.50	40.00	0.00	108.65	102.83
23	1.70	0.00	102.67	100.58	101.95	100.55	56.20	0.00	107.89	104.51	55.80	0.00	108.51	103.43
24	1.70	0.00	102.71	100.24	101.72	100.16	45.10	0.00	107.40	104.15	41.90	0.00	108.45	103.48

HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO	
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT
1	14.60	0.00	101.82	100.31	12.60	0.00	099.85	103.07	65.20	0.00	106.05	106.91	106.01	102.80
2	14.80	0.00	101.84	100.09	14.40	0.00	099.25	103.30	64.80	0.00	105.73	106.48	105.96	102.49
3	14.70	0.00	101.79	099.87	12.90	0.00	099.77	104.33	64.40	0.00	105.54	106.54	105.80	101.92
4	14.50	0.00	101.88	099.67	12.80	0.00	099.88	103.51	65.10	0.00	105.64	106.41	105.74	101.76
5	14.60	0.00	101.83	099.51	12.70	0.00	100.76	103.36	84.70	0.00	105.53	106.29	105.77	101.35
6	14.70	0.00	101.77	099.42	12.70	0.00	101.54	104.13	104.70	0.00	105.35	106.10	105.71	101.33
7	14.90	0.00	101.89	099.40	12.70	0.00	101.10	103.43	106.10	0.00	105.28	106.02	105.79	101.28
8	14.90	0.00	101.89	099.83	13.20	0.00	100.60	103.68	106.20	0.00	105.19	106.19	106.04	101.43
9	20.30	0.00	102.01	100.57	18.40	0.00	100.19	103.89	105.40	0.00	105.34	106.34	106.20	101.66
10	34.30	0.00	101.84	101.22	25.40	0.00	100.51	104.50	104.30	0.00	105.29	106.56	106.74	101.89
11	38.10	0.00	101.90	101.66	34.50	0.00	101.90	104.50	103.60	0.00	105.40	106.63	107.04	102.31
12	40.60	0.00	102.07	101.93	41.50	0.00	102.77	104.36	98.30	0.00	105.90	106.74	107.16	102.66
13	40.50	0.00	102.35	102.50	41.70	0.00	102.47	104.49	93.00	0.00	106.75	106.81	107.26	103.06
14	40.90	0.00	103.15	102.61	42.60	0.00	101.71	104.67	89.60	0.00	107.55	106.74	107.66	103.26
15	41.80	0.00	104.61	102.76	47.80	0.00	101.68	104.44	89.50	0.00	107.00	106.88	107.67	103.38
16	40.30	0.00	105.65	103.66	48.30	0.00	102.31	104.41	89.40	0.00	106.97	107.17	107.67	103.76
17	40.20	0.00	104.93	103.33	48.30	0.00	102.65	104.37	84.20	0.00	107.44	107.09	107.45	103.95
18	39.80	0.00	104.29	102.97	49.90	0.00	103.12	104.43	83.80	0.00	107.63	106.97	107.40	104.31
19	31.40	0.00	105.45	102.76	42.30	0.00	102.63	104.16	84.40	0.00	108.53	107.30	107.35	104.49
20	26.80	0.00	105.86	102.68	39.90	0.00	102.82	104.24	104.40	0.00	108.33	108.52	107.26	104.70
21	26.70	0.00	106.34	102.25	27.10	0.00	102.04	104.10	125.70	0.00	108.26	107.68	107.07	104.82
22	24.40	0.00	106.31	101.97	18.70	0.00	102.67	103.94	126.00	0.00	108.51	107.41	106.92	104.93
23	21.70	0.00	106.21	101.95	20.60	0.00	103.49	104.11	118.90	0.00	108.04	107.30	106.82	105.07
24	38.60	0.00	106.26	101.99	22.30	0.00	103.81	104.39	116.10	0.00	108.11	107.73	106.76	105.07

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WALLA WALLA DISTRICT HYDRO PROJECTS
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HOUR	DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
	TOTAL	SPILL	GAS	%SAT	ANATONE	PECK	LEWISTON	TOTAL	SPILL	GAS	%SAT	TOTAL	SPILL	GAS	%SAT
	DISCH.	KCFS	TAILW.	%SAT	GAS	GAS	GAS	DISCH	KCFS	FB	TAILW.	DISCH	KCFS	FB	TAILW.
1	1.70	0.00	103.28	100.04	101.16	099.22	15.70	0.00	106.74	102.02	15.80	0.00	102.78	100.87	
2	1.70	0.00	103.26	099.67	100.89	098.96	14.30	0.00	106.20	101.87	14.10	0.00	102.33	100.83	
3	1.70	0.00	103.34	099.50	100.74	098.65	14.60	0.00	106.00	101.56	13.90	0.00	102.02	100.54	
4	1.70	0.00	103.34	099.33	100.53	098.49	14.40	0.00	105.60	101.39	13.90	0.00	101.88	100.21	
5	1.70	0.00	103.29	099.17	100.40	098.33	14.20	0.00	105.38	102.30	14.00	0.00	102.14	100.20	
6	1.70	0.00	103.01	099.32	100.34	098.18	14.20	0.00	105.34	102.23	14.10	0.00	101.99	100.21	
7	1.70	0.00	102.95	099.58	100.30	098.38	19.10	0.00	105.42	102.33	13.90	0.00	102.05	100.36	
8	1.70	0.00	103.32	100.03	100.60	099.03	20.50	0.00	105.33	102.62	14.20	0.00	101.89	100.75	
9	1.70	0.00	103.90	100.79	101.08	099.80	25.30	0.00	105.42	102.60	19.80	0.00	101.73	100.90	
10	1.70	0.00	104.63	100.95	101.68	100.65	25.30	0.00	105.72	103.00	18.90	0.00	101.74	100.92	
11	1.70	0.00	105.21	101.52	102.10	101.16	25.30	0.00	105.91	103.23	27.00	0.00	102.34	101.65	
12	1.70	0.00	105.46	102.04	102.14	101.73	25.30	0.00	105.76	103.22	27.40	0.00	102.47	101.78	
13	1.70	0.00	105.23	102.30	102.28	102.15	28.00	0.00	106.06	103.24	26.00	0.00	102.56	101.70	
14	1.70	0.00	104.76	101.92	101.98	102.12	26.00	0.00	106.12	103.17	25.50	0.00	102.70	101.69	
15	1.70	0.00	104.41	102.28	101.98	102.28	27.80	0.00	105.82	103.00	28.60	0.00	102.74	101.47	
16	1.70	0.00	104.43	102.08	101.92	101.90	26.00	0.00	105.43	102.74	27.40	0.00	102.63	101.63	
17	1.70	0.00	104.31	101.58	101.80	101.66	26.00	0.00	105.06	102.47	27.40	0.00	102.98	101.87	
18	1.70	0.00	104.10	101.17	101.83	101.13	26.10	0.00	105.06	102.36	27.40	0.00	102.87	101.75	
19	1.70	0.00	104.31	101.04	101.62	100.38	26.40	0.00	105.60	102.35	27.30	0.00	102.45	101.44	
20	1.70	0.00	103.50	100.43	101.24	099.56	16.30	0.00	106.10	102.30	27.00	0.00	102.19	101.34	
21	1.70	0.00	103.04	099.77	100.96	099.11	15.30	0.00	105.60	102.12	13.40	0.00	102.24	100.87	
22	1.70	0.00	102.85	099.32	100.60	098.53	15.30	0.00	105.42	101.81	12.50	0.00	101.93	100.71	
23	1.70	0.00	102.51	099.05	100.30	098.24	15.30	0.00	105.00	101.59	13.30	0.00	101.74	100.51	
24	1.70	0.00	102.19	098.93	100.08	097.92	15.50	0.00	104.66	101.53	13.20	0.00	101.79	100.11	
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
	TOTAL	SPILL	GAS	%SAT	TOTAL	SPILL	GAS	%SAT	TOTAL	SPILL	GAS	%SAT	GAS	%SAT	
	DISCH	KCFS	FB	TAILW.	DISCH	KCFS	FB	TAILW.	DISCH	KCFS	OR	WA	FB	SAT	
1	13.60	0.00	105.21	102.02	12.90	0.00	104.48	105.58	90.80	0.00	108.88	108.41	108.71	107.30	
2	13.60	0.00	104.99	101.82	14.30	0.00	104.23	105.06	85.60	0.00	108.97	108.86	108.36	107.05	
3	13.70	0.00	105.06	101.78	10.70	0.00	103.61	104.87	75.70	0.00	108.81	108.73	107.97	106.69	
4	13.60	0.00	104.83	101.62	10.90	0.00	103.61	104.69	81.00	0.00	108.32	108.42	108.32	106.38	
5	13.70	0.00	104.36	101.59	10.70	0.00	104.38	105.09	80.20	0.00	108.28	108.37	108.67	106.13	
6	15.20	0.00	104.46	101.55	10.80	0.00	102.97	105.02	82.30	0.00	108.35	108.18	108.20	105.64	
7	13.90	0.00	104.26	101.75	10.80	0.00	102.01	105.28	104.10	0.00	108.22	108.30	107.95	105.51	
8	14.00	0.00	104.17	102.04	12.20	0.00	104.16	105.47	107.70	0.00	108.09	108.49	107.98	105.35	
9	18.50	0.00	104.38	102.19	12.90	0.00	103.76	105.20	107.40	0.00	107.79	108.45	107.88	105.44	
10	18.70	0.00	104.69	102.87	14.40	0.00	102.54	105.55	103.20	0.00	107.86	108.57	108.04	105.88	
11	26.70	0.00	104.90	103.03	18.30	0.00	102.83	105.92	106.10	0.00	108.03	108.79	108.20	106.31	
12	28.50	0.00	104.87	103.06	19.50	0.00	102.04	106.55	116.40	0.00	107.82	108.69	108.14	106.66	
13	26.80	0.00	105.23	103.29	24.80	0.00	102.46	106.21	122.20	0.00	107.75	108.53	107.95	106.62	
14	26.90	0.00	105.31	103.08	25.20	0.00	102.81	105.48	123.00	0.00	107.75	108.24	107.81	106.73	
15	27.50	0.00	105.13	102.94	27.30	0.00	103.44	105.12	119.90	0.00	107.91	108.27	107.72	106.56	
16	26.90	0.00	105.05	102.98	25.20	0.00	103.05	104.98	119.80	0.00	107.82	108.18	107.95	106.33	
17	27.30	0.00	105.35	103.02	25.10	0.00	103.07	105.37	119.60	0.00	107.51	108.13	107.75	106.10	
18	27.20	0.00	105.33	102.84	25.10	0.00	101.93	104.56	113.80	0.00	107.57	108.17	107.76	105.69	
19	27.20	0.00	104.90	102.55	25.00	0.00	102.06	104.56	113.00	0.00	107.29	108.27	107.63	105.59	
20	27.20	0.00	104.34	102.23	25.50	0.00	102.27	104.34	109.30	0.00	107.04	108.05	107.35	105.25	
21	27.40	0.00	104.13	101.73	24.70	0.00	102.90	103.99	109.30	0.00	106.89	107.75	106.99	104.74	
22	15.20	0.00	103.61	101.08	17.80	0.00	101.81	103.72	99.40	0.00	106.60	107.59	106.57	104.20	
23	14.60	0.00	102.87	100.75	14.20	0.00	101.32	103.53	97.00	0.00	106.53	107.18	106.38	103.76	
24	14.60	0.00	102.26	100.39	12.70	0.00	100.99	103.17	77.10	0.00	106.22	106.96	106.07	103.76	

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HOUR	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.70	0.00	103.20	101.06	101.51	099.92	17.40	0.00	106.92	102.20	13.40	0.00	100.16	099.74
2	1.70	0.00	103.32	100.76	101.17	099.46	17.40	0.00	106.94	101.98	13.20	0.00	100.00	099.65
3	1.70	0.00	103.34	100.44	101.08	099.20	17.30	0.00	106.92	101.89	13.40	0.00	099.93	099.62
4	1.70	0.00	103.34	100.34	100.79	098.91	17.30	0.00	106.04	101.72	13.20	0.00	099.91	099.61
5	1.70	0.00	103.28	099.96	100.61	098.72	19.30	0.00	105.20	101.80	14.70	0.00	099.91	099.60
6	1.70	0.00	103.40	100.12	100.50	098.69	17.70	0.00	105.17	102.61	14.10	0.00	099.99	099.57
7	1.70	0.00	103.65	100.60	100.59	099.08	29.10	0.00	103.79	102.68	24.80	0.00	100.09	099.65
8	1.70	0.00	104.20	101.56	101.05	099.88	30.10	0.00	103.59	102.25	31.30	0.00	100.32	099.91
9	1.70	0.00	104.79	103.07	101.58	100.86	30.10	0.00	104.40	102.26	31.70	0.00	100.32	100.19
10	1.70	0.00	105.65	103.55	101.92	102.12	32.00	0.00	103.93	102.44	35.80	0.00	100.64	100.31
11	1.70	0.00	106.25	104.53	103.07	103.17	32.80	0.00	103.64	102.61	37.40	0.00	100.66	100.46
12	1.70	0.00	106.72	104.88	103.50	103.89	31.10	0.00	103.71	102.61	35.20	0.00	101.10	100.92
13	1.70	0.00	107.20	105.63	103.90	104.79	30.80	0.00	104.39	102.65	36.00	0.00	101.29	100.98
14	1.70	0.00	107.45	106.40	104.44	105.28	30.70	0.00	105.19	102.60	34.40	0.00	101.27	101.33
15	1.70	0.00	107.50	106.35	104.87	105.35	32.30	0.00	105.10	102.70	34.60	0.00	101.74	101.44
16	1.70	0.00	107.28	105.80	105.07	105.24	31.20	0.00	105.26	102.83	34.60	0.00	102.21	101.36
17	1.70	0.00	106.83	105.38	104.93	104.73	30.70	0.00	106.08	102.69	34.70	0.00	102.27	101.41
18	1.70	0.00	106.05	104.01	104.11	103.92	30.40	0.00	105.92	102.72	34.40	0.00	102.00	101.40
19	1.70	0.00	106.83	103.41	103.63	103.05	25.90	0.00	105.59	102.36	30.50	0.00	101.82	101.25
20	1.70	0.00	104.30	102.21	103.16	102.03	27.30	0.00	105.71	102.48	27.10	0.00	102.13	101.33
21	1.70	0.00	103.70	101.36	102.59	101.12	28.30	0.00	106.65	104.07	26.90	0.00	102.75	101.20
22	1.70	0.00	103.28	100.95	102.04	100.54	27.50	0.00	107.52	102.89	26.80	0.00	102.49	101.14
23	1.70	0.00	103.11	100.60	101.56	100.01	27.60	0.00	108.03	102.48	26.80	0.00	102.71	101.03
24	1.70	0.00	103.33	100.26	101.28	099.80	27.00	0.00	107.80	102.29	26.60	0.00	102.85	100.93
HOUR	LOWER MONUMENTAL			ICE HARBOR			MCNARY			PASCO				
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT		
1	13.90	0.00	105.17 102.10	12.80	0.00	102.88 104.64	91.50	0.00	109.49	108.81	108.05	108.53		
2	13.60	0.00	105.52 101.73	12.90	0.00	102.55 104.50	91.60	0.00	109.19	108.62	107.99	108.19		
3	13.90	0.00	105.38 101.57	12.90	0.00	102.69 104.36	91.60	0.00	109.20	108.61	107.99	108.08		
4	13.60	0.00	104.82 101.52	13.10	0.00	102.39 104.32	92.00	0.00	108.36	109.65	107.93	107.91		
5	13.60	0.00	105.06 101.48	12.90	0.00	102.25 104.56	89.80	0.00	108.48	109.76	107.77	107.62		
6	14.60	0.00	104.88 101.40	13.60	0.00	102.21 104.53	86.90	0.00	107.63	109.44	108.04	107.43		
7	26.80	0.00	104.97 101.78	18.00	0.00	101.62 104.64	113.00	0.00	108.63	109.59	108.27	107.24		
8	27.20	0.00	104.97 102.19	18.10	0.00	102.28 104.95	130.20	0.00	108.66	109.81	108.38	107.22		
9	33.50	0.00	105.65 102.87	18.80	0.00	101.99 105.38	138.60	0.00	108.84	110.25	108.51	107.09		
10	39.20	0.00	105.93 103.54	32.00	0.00	103.12 105.59	138.30	0.00	108.85	109.85	108.66	107.50		
11	37.80	0.00	105.45 103.90	36.10	0.00	102.08 105.70	145.00	0.00	109.46	110.16	108.89	107.99		
12	38.00	0.00	105.57 104.00	39.10	0.00	101.73 105.59	144.40	0.00	110.39	109.44	108.94	108.61		
13	38.00	0.00	106.35 104.23	39.20	0.00	103.39 106.08	138.80	0.00	110.59	109.63	109.14	109.29		
14	38.60	0.00	106.83 104.45	40.70	0.00	105.76 106.18	141.20	0.00	110.42	109.05	109.23	109.69		
15	39.50	0.00	107.59 104.59	39.40	0.00	105.43 105.95	141.30	0.00	110.06	109.12	109.06	109.87		
16	37.90	0.00	106.99 104.66	40.10	0.00	105.08 105.89	139.60	0.00	109.94	109.94	109.15	109.88		
17	39.30	0.00	106.94 104.77	39.20	0.00	105.42 105.98	142.90	0.00	109.46	109.79	109.05	109.73		
18	37.70	0.00	107.45 104.46	39.00	0.00	105.97 105.61	140.90	0.00	108.11	109.94	109.15	109.34		
19	35.40	0.00	107.72 104.02	38.10	0.00	104.52 105.38	117.60	0.00	109.09	110.12	108.96	109.05		
20	31.20	0.00	107.87 103.63	37.90	0.00	104.03 105.16	124.60	0.00	108.98	110.26	108.87	108.66		
21	31.40	0.00	107.65 103.24	37.60	0.00	104.58 105.54	117.00	0.00	108.79	110.35	108.89	108.29		
22	26.40	0.00	107.31 103.03	32.90	0.00	104.89 105.73	95.10	0.00	108.46	109.85	108.84	108.10		
23	26.30	0.00	106.92 102.86	26.50	0.00	104.97 105.81	89.20	0.00	108.26	109.26	108.79	107.78		
24	15.20	0.00	106.21 102.34	17.70	0.00	105.16 105.37	91.70	0.00	108.32	108.92	108.88	107.78		

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	DWORSHAK			STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPIILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPIILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPIILL KCFS	GAS FB	%SAT. TAILW.
1	1.70	0.00	103.12	101.18	101.69	100.42	30.20	0.00	108.58	103.04	34.60	0.00	101.69	102.18
2	1.70	0.00	103.11	100.66	101.51	099.96	29.90	0.00	107.88	102.92	33.70	0.00	100.80	101.46
3	1.70	0.00	103.12	100.30	101.20	099.62	28.30	0.00	109.90	102.74	30.50	0.00	102.41	101.02
4	1.70	0.00	103.02	100.09	100.95	099.30	29.40	0.00	107.15	102.58	30.30	0.00	100.47	100.57
5	1.70	0.00	102.95	099.78	100.60	098.99	28.20	0.00	106.03	102.25	30.90	0.00	100.31	100.17
6	1.70	0.00	102.94	099.74	100.43	098.96	28.60	0.00	105.34	102.70	34.00	0.00	100.08	100.03
7	1.70	0.00	103.36	100.42	100.79	099.34	32.10	0.00	105.74	102.52	34.50	0.00	100.01	099.99
8	1.70	0.00	103.87	101.27	101.14	100.16	32.50	0.00	105.99	102.62	34.30	0.00	099.75	099.85
9	1.70	0.00	104.50	102.36	101.83	101.41	32.80	0.00	105.94	102.88	36.00	0.00	099.52	100.00
10	1.70	0.00	105.10	102.72	102.07	102.68	32.00	0.00	105.99	102.99	34.80	0.00	099.40	100.03
11	1.70	0.00	105.83	103.53	103.35	103.68	32.00	0.00	105.92	103.24	34.90	0.00	099.49	100.08
12	1.70	0.00	106.57	104.67	103.95	104.99	32.30	0.00	106.01	103.43	34.90	0.00	099.54	100.15
13	1.70	0.00	106.79	105.57	104.29	105.87	32.30	0.00	106.90	103.51	36.40	0.00	099.41	100.28
14	1.70	0.00	107.18	106.26	104.93	106.37	32.80	0.00	107.27	103.50	34.60	0.00	099.46	100.59
15	1.70	0.00	107.10	106.50	105.33	106.86	32.30	0.00	107.33	103.57	34.60	0.00	099.53	100.54
16	1.70	0.00	107.04	106.84	105.68	106.53	32.30	0.00	106.32	?UNDEF	36.20	0.00	099.62	100.51
17	1.70	0.00	106.84	106.27	105.54	105.88	32.20	0.00	105.84	103.26	33.60	0.00	099.66	100.39
18	1.70	0.00	106.16	105.19	105.08	105.09	32.20	0.00	105.46	103.21	32.90	0.00	099.69	100.32
19	1.70	0.00	106.84	104.27	104.52	104.45	32.90	0.00	105.49	102.83	33.00	0.00	099.85	100.24
20	1.70	0.00	104.52	103.43	103.84	103.37	28.80	0.00	105.41	102.86	33.00	0.00	099.81	100.28
21	1.70	0.00	103.99	102.77	103.36	102.39	30.60	0.00	105.88	102.89	32.90	0.00	099.78	100.15
22	1.70	0.00	103.80	102.15	102.70	101.45	29.00	0.00	106.32	103.12	30.50	0.00	099.87	099.83
23	1.70	0.00	103.50	101.72	102.28	100.84	28.70	0.00	107.23	102.51	29.70	0.00	099.93	099.79
24	1.70	0.00	103.32	101.27	101.80	100.30	18.10	0.00	106.94	102.24	16.30	0.00	099.91	099.61

HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO	
	TOTAL DISCH KCFS	SPIILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPIILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPIILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT
1	41.80	0.00	110.28	103.37	29.60	0.00	101.28	104.70	110.20	0.00	110.83	108.03	107.39	109.39
2	42.50	0.00	109.70	103.31	28.90	0.00	100.75	104.26	108.90	0.00	110.26	108.25	107.22	109.19
3	31.00	0.00	108.21	103.09	29.70	0.00	101.12	103.96	110.70	0.00	110.10	107.90	107.03	108.97
4	29.90	0.00	108.54	103.17	30.00	0.00	100.29	103.96	109.60	0.00	109.29	107.87	107.13	108.65
5	30.00	0.00	108.13	103.03	34.60	0.00	099.44	103.79	121.30	0.00	110.18	109.74	107.25	108.50
6	29.90	0.00	107.24	102.81	36.50	0.00	099.87	103.89	123.70	0.00	110.05	110.37	107.52	108.37
7	37.70	0.00	106.91	102.94	40.50	0.00	104.11	104.21	149.40	0.00	108.54	111.04	107.74	108.08
8	35.90	0.00	106.51	103.25	38.10	0.00	104.53	105.14	165.50	0.00	108.32	111.55	107.70	108.12
9	35.30	0.00	105.86	103.89	39.50	0.00	105.07	104.92	169.00	0.00	109.76	109.92	107.90	108.25
10	35.30	0.00	106.02	104.20	39.30	0.00	105.19	105.44	170.00	0.00	107.81	110.57	108.10	108.43
11	34.80	0.00	106.22	104.48	38.30	0.00	105.78	101.00	169.50	0.00	111.20	108.57	108.15	108.74
12	36.60	0.00	104.97	104.68	38.30	0.00	106.46	104.94	169.00	0.00	111.98	108.24	108.41	109.10
13	35.10	0.00	105.32	105.45	37.80	0.00	105.62	105.32	169.80	0.00	112.34	108.88	108.50	109.62
14	37.30	0.00	106.20	105.14	35.20	0.00	104.09	105.57	169.80	0.00	112.46	110.02	108.85	109.85
15	35.20	0.00	108.45	105.35	35.10	0.00	103.93	105.76	169.70	0.00	112.49	109.42	108.94	110.07
16	35.00	0.00	105.55	105.22	35.20	0.00	103.57	106.24	170.20	0.00	112.38	109.11	108.79	110.12
17	36.80	0.00	105.14	105.28	36.60	0.00	103.26	105.95	169.80	0.00	112.09	109.09	108.62	110.00
18	35.20	0.00	105.03	104.90	35.10	0.00	103.21	105.61	169.90	0.00	112.37	109.15	108.52	109.79
19	35.20	0.00	105.38	104.63	35.20	0.00	102.96	105.42	169.90	0.00	111.61	109.08	108.57	109.79
20	35.10	0.00	107.15	103.93	35.20	0.00	102.73	105.40	169.50	0.00	111.11	109.18	108.60	109.67
21	35.80	0.00	107.22	103.47	35.80	0.00	103.32	105.38	140.00	0.00	111.27	108.97	108.38	109.51
22	35.20	0.00	107.31	103.19	35.00	0.00	103.13	105.04	111.70	0.00	110.53	108.87	108.28	109.29
23	34.00	0.00	106.71	103.00	33.40	0.00	102.12	104.83	110.30	0.00	110.77	108.71	108.10	108.99
24	20.30	0.00	105.77	102.56	19.00	0.00	102.80	104.85	92.20	0.00	109.96	109.08	108.08	108.99

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WALLA WALLA DISTRICT HYDRO PROJECTS
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HOUR	DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	
1	1.70	0.00	102.80	100.85	101.53	100.84	16.60	0.00	108.92	102.92	22.30	0.00	109.08	101.13		
2	1.70	0.00	102.77	100.67	101.37	100.62	14.40	0.00	108.02	102.25	15.30	0.00	107.58	100.76		
3	1.70	0.00	102.78	100.57	101.08	100.16	14.30	0.00	107.18	101.97	14.90	0.00	106.48	100.47		
4	1.70	0.00	102.75	100.38	100.93	099.88	14.50	0.00	106.13	101.70	15.20	0.00	106.05	100.29		
5	1.70	0.00	102.71	100.34	100.64	099.41	16.30	0.00	105.57	102.03	14.90	0.00	106.18	100.01		
6	1.70	0.00	102.78	100.42	100.47	099.29	20.40	0.00	105.64	102.43	15.10	0.00	106.53	099.69		
7	1.70	0.00	103.03	100.93	100.53	099.22	25.30	0.00	105.33	103.61	20.50	0.00	107.43	099.67		
8	1.70	0.00	103.59	101.39	101.06	099.64	29.30	0.00	109.55	103.09	27.20	0.00	108.90	099.96		
9	1.70	0.00	104.32	102.16	101.70	101.30	32.50	0.00	110.23	103.38	29.90	0.00	112.57	100.24		
10	1.70	0.00	105.14	102.55	101.95	102.59	33.70	0.00	110.95	103.44	33.60	0.00	111.97	100.84		
11	1.70	0.00	105.58	103.65	103.22	103.84	33.10	0.00	111.95	104.02	33.90	0.00	113.09	101.43		
12	1.70	0.00	106.06	104.71	103.88	105.02	32.20	0.00	112.23	103.90	35.60	0.00	111.96	101.61		
13	1.70	0.00	106.45	105.41	104.22	106.05	32.20	0.00	114.40	103.86	34.00	0.00	112.30	101.72		
14	1.70	0.00	106.68	106.08	104.89	106.67	36.20	0.00	116.46	100.00	39.50	0.00	113.23	102.16		
15	1.70	0.00	106.74	106.62	105.37	107.00	36.70	0.00	116.45	104.15	38.40	0.00	113.48	102.41		
16	1.70	0.00	106.81	106.65	105.69	107.09	36.10	0.00	115.35	104.39	24.40	0.00	110.23	101.69		
17	1.70	0.00	106.51	106.46	105.72	106.90	26.40	0.00	114.51	104.67	10.70	9.60	104.37	101.23		
18	1.70	0.00	106.17	105.30	105.48	106.33	25.10	0.00	116.99	110.51	15.90	14.80	109.68	108.10		
19	1.70	0.00	106.51	104.36	104.75	105.49	25.30	0.00	116.31	103.78	19.40	11.10	110.33	111.23		
20	1.70	0.00	104.55	103.79	104.17	104.44	33.80	0.00	113.48	103.90	25.80	0.00	108.45	111.62		
21	1.70	0.00	103.68	102.92	103.39	103.08	35.20	0.00	113.06	103.88	34.00	0.00	108.47	107.72		
22	1.70	0.00	103.33	102.33	102.82	102.21	34.50	0.00	111.91	103.95	39.90	0.00	107.60	105.29		
23	1.70	0.00	103.11	101.72	102.31	101.47	33.80	0.00	111.19	103.79	42.30	0.00	102.23	103.88		
24	1.70	0.00	103.11	101.47	101.97	100.93	30.40	0.00	110.12	103.39	41.60	0.00	100.42	102.76		
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT		
1	27.30	0.00	107.93	102.70	34.80	0.00	102.00	103.36	113.00	0.00	111.38	109.61	107.39	109.15		
2	23.00	0.00	107.78	102.57	28.40	0.00	100.24	103.33	112.90	0.00	112.17	112.66	107.52	108.89		
3	14.40	0.00	107.22	102.25	22.30	0.00	098.89	103.30	108.10	0.00	111.89	113.13	107.63	108.73		
4	15.30	0.00	106.73	102.13	12.00	0.00	100.49	103.49	114.00	0.00	110.99	110.12	107.64	108.57		
5	13.80	0.00	106.58	101.94	11.20	0.00	100.73	103.20	153.90	0.00	109.70	111.52	107.58	108.46		
6	13.80	0.00	105.69	101.86	12.80	0.00	099.88	103.29	163.50	0.00	108.98	110.42	107.50	108.11		
7	14.20	0.00	106.87	101.83	11.60	0.00	099.99	103.26	166.10	0.00	109.41	110.52	107.76	107.94		
8	20.10	0.00	107.00	102.11	14.20	0.00	100.91	104.52	167.10	0.00	107.24	110.67	107.89	107.79		
9	28.10	0.00	107.56	102.91	18.60	0.00	101.77	104.84	170.50	0.00	107.16	110.55	108.05	107.98		
10	34.80	0.00	107.65	103.51	25.00	0.00	103.65	106.16	171.40	0.00	107.47	110.46	108.24	108.30		
11	34.80	0.00	108.51	104.02	34.10	0.00	103.66	105.95	171.10	0.00	111.99	111.17	108.30	108.61		
12	35.10	0.00	108.57	104.28	34.80	0.00	103.36	106.00	170.50	0.00	112.89	110.89	108.24	109.05		
13	35.10	0.00	108.54	104.53	35.50	0.00	103.56	106.46	171.40	0.00	113.48	110.15	108.49	109.28		
14	36.00	0.00	109.67	104.77	34.90	0.00	103.53	106.63	170.40	0.00	114.09	109.44	108.00	109.39		
15	39.20	0.00	107.35	105.03	39.10	0.00	105.61	106.79	148.00	0.00	114.87	110.06	108.65	109.63		
16	39.10	0.00	106.37	105.04	39.00	0.00	106.62	106.70	133.70	0.00	113.21	109.50	109.03	109.75		
17	28.00	0.00	105.74	104.87	29.60	0.00	105.64	106.15	132.40	0.00	113.64	110.67	109.16	109.77		
18	23.50	0.00	106.90	105.07	29.00	0.00	104.56	105.89	120.80	0.00	113.53	110.59	109.34	109.97		
19	21.70	0.00	106.37	104.82	29.60	0.00	102.94	105.67	120.10	0.00	112.80	110.25	109.23	110.15		
20	22.10	0.00	106.93	104.09	29.10	0.00	101.46	105.40	131.90	0.00	112.80	109.54	108.82	110.39		
21	22.00	0.00	107.21	103.50	29.10	0.00	099.92	104.93	134.40	0.00	112.90	109.11	108.51	110.34		
22	33.00	0.00	107.53	103.25	29.20	0.00	098.71	104.52	121.30	0.00	112.88	108.61	107.98	110.18		
23	35.00	0.00	108.29	103.16	30.70	0.00	101.15	104.37	121.20	0.00	112.92	108.08	107.76	109.97		
24	41.50	0.00	109.40	103.21	29.20	0.00	101.44	104.32	115.50	0.00	111.94	107.91	107.57	109.97		

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WALLA WALLA DISTRICT HYDRO PROJECTS
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HOUR	DWRSHAK			STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT TAILW.
1	1.70	0.00	103.77	100.84	101.49	099.79	14.90	0.00	106.69	102.23	15.10	0.00	109.69	102.34
2	1.70	0.00	103.70	100.57	101.41	099.53	15.40	0.00	106.24	101.96	14.60	0.00	109.55	102.02
3	1.70	0.00	103.73	100.38	101.03	099.12	16.90	0.00	106.24	101.82	13.20	0.00	109.11	101.74
4	1.70	0.00	103.70	100.24	100.96	098.81	17.00	0.00	105.89	101.47	13.10	0.00	108.61	101.42
5	1.70	0.00	103.65	100.20	100.53	098.58	29.60	0.00	105.73	102.27	13.50	0.00	107.61	101.10
6	1.70	0.00	103.59	100.09	100.38	098.58	31.00	0.00	105.97	102.38	19.80	0.00	107.70	100.98
7	1.70	0.00	103.97	100.63	100.67	098.77	35.40	0.00	105.79	102.56	31.20	0.00	107.74	101.59
8	1.70	0.00	104.54	101.45	100.99	099.55	38.90	0.00	106.47	102.69	38.10	0.00	107.87	102.51
9	1.70	0.00	105.08	102.14	101.61	100.75	37.90	0.00	107.26	102.99	38.90	0.00	108.52	103.19
10	1.80	0.00	105.69	103.16	101.81	101.89	37.90	0.00	108.90	103.15	40.70	0.00	109.65	102.55
11	1.70	0.00	106.27	103.99	102.93	103.16	38.20	0.00	109.76	100.00	40.90	0.00	109.41	102.44
12	1.70	0.00	106.62	104.87	103.56	104.28	38.30	0.00	110.14	103.59	39.20	0.00	109.45	102.23
13	1.70	0.00	106.99	105.64	104.00	105.29	36.80	0.00	111.59	103.66	39.50	0.00	110.35	102.27
14	1.70	0.00	107.35	106.12	104.64	106.19	35.80	0.00	111.81	103.88	38.60	0.00	109.85	102.59
15	1.70	0.00	107.39	105.95	105.01	106.68	35.50	0.00	113.33	104.07	39.90	0.00	109.40	103.08
16	1.70	0.00	107.13	106.22	105.33	106.70	35.70	0.00	114.05	104.12	38.40	0.00	107.73	102.88
17	1.70	0.00	106.75	105.84	105.47	106.49	36.70	0.00	112.50	104.33	38.30	0.00	108.60	102.53
18	1.70	0.00	106.00	104.76	105.20	105.99	35.90	0.00	113.20	104.25	38.20	0.00	108.66	102.33
19	1.70	0.00	106.75	103.91	104.68	104.65	33.90	0.00	115.96	104.09	38.30	0.00	108.97	102.24
20	1.70	0.00	104.22	103.33	104.06	104.11	33.90	0.00	111.77	103.97	40.50	0.00	109.34	101.81
21	1.70	0.00	103.34	102.73	103.27	103.17	35.70	0.00	111.72	104.59	39.70	0.00	109.45	101.49
22	1.70	0.00	102.84	102.11	102.70	102.27	31.90	0.00	111.13	103.45	34.60	0.00	108.99	101.17
23	1.70	0.00	102.81	101.67	102.21	101.82	31.00	0.00	110.83	103.19	32.60	0.00	109.18	101.53
24	1.70	0.00	102.80	101.26	101.76	101.27	31.80	0.00	110.72	103.20	25.70	0.00	109.20	101.28

HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO	
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT
1	14.00	0.00	112.51	102.40	12.70	0.00	100.15	103.25	89.70	0.00	112.89	111.08	107.97	107.28
2	13.70	0.00	111.90	102.12	12.10	0.00	100.13	102.81	79.70	0.00	111.82	111.73	107.53	106.98
3	14.00	0.00	111.23	101.82	10.50	0.00	102.76	102.77	79.00	0.00	111.73	111.16	107.76	106.84
4	13.70	0.00	111.33	101.34	10.70	0.00	102.17	102.62	79.10	0.00	111.24	111.14	107.57	106.69
5	15.20	0.00	111.69	101.33	10.50	0.00	101.73	102.73	79.60	0.00	111.26	110.55	107.40	106.52
6	15.90	0.00	110.96	101.46	10.50	0.00	102.09	102.90	99.30	0.00	110.86	110.13	107.19	106.28
7	29.10	0.00	110.62	101.69	12.20	0.00	101.73	103.31	150.60	0.00	108.59	110.04	107.80	106.24
8	31.60	0.00	110.22	102.09	26.80	0.00	101.87	103.89	158.60	0.00	106.82	109.75	108.03	106.21
9	39.00	0.00	110.18	102.69	28.60	0.00	103.01	104.92	158.10	0.00	106.75	109.04	108.02	106.46
10	42.00	0.00	109.17	103.30	38.10	0.00	103.35	105.44	165.80	0.00	106.10	109.70	108.31	106.87
11	42.80	0.00	108.84	103.66	40.10	0.00	103.88	105.19	167.00	0.00	107.68	111.10	108.50	107.31
12	40.10	0.00	108.62	104.03	40.20	0.00	104.96	105.04	167.90	0.00	111.05	110.48	108.79	107.74
13	39.90	0.00	108.93	104.12	38.60	0.00	105.29	105.42	167.80	0.00	114.16	110.19	108.75	107.94
14	39.80	0.00	108.69	104.22	38.50	0.00	105.00	105.52	166.90	0.00	114.62	109.42	108.55	108.17
15	39.90	0.00	108.41	104.21	42.00	0.00	107.58	105.70	150.00	0.00	114.87	108.86	108.49	108.35
16	40.80	0.00	108.06	104.31	40.00	0.00	107.75	105.28	133.60	0.00	113.04	108.55	108.58	108.54
17	41.90	0.00	107.72	104.24	40.10	0.00	107.72	105.24	118.40	0.00	112.67	112.01	108.48	108.64
18	40.30	0.00	108.82	104.17	41.50	0.00	107.78	104.86	116.10	0.00	112.08	109.62	108.47	108.90
19	40.30	0.00	109.12	104.06	40.00	0.00	108.04	104.65	116.20	0.00	112.52	108.96	108.47	108.95
20	40.30	0.00	109.13	103.59	40.70	0.00	106.96	104.49	116.60	0.00	112.80	109.24	108.15	109.23
21	40.40	0.00	108.86	103.30	40.00	0.00	106.18	103.80	116.60	0.00	112.76	109.34	107.90	109.21
22	41.10	0.00	108.76	102.98	39.90	0.00	105.08	103.66	115.40	0.00	113.13	108.08	107.58	109.33
23	40.20	0.00	108.60	102.81	39.70	0.00	104.79	103.66	113.50	0.00	112.46	108.74	107.28	109.46
24	35.20	0.00	107.80	102.77	39.50	0.00	104.27	103.53	112.40	0.00	111.83	111.36	107.42	109.46

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	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR :	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT TAILW.
1	1.70	0.00	103.29	100.63	101.32	099.87	14.40	0.00	102.43	100.72	16.70	0.00	102.80	101.47
2	1.70	0.00	103.31	100.50	101.24	099.45	14.20	0.00	102.15	100.71	14.80	0.00	102.69	101.31
3	1.70	0.00	103.42	100.36	100.92	099.16	13.90	0.00	101.86	100.52	14.70	0.00	103.08	101.14
4	1.70	0.00	103.43	100.38	100.63	098.86	14.40	0.00	101.79	100.39	14.50	0.00	103.32	100.97
5	1.70	0.00	103.39	100.31	100.42	098.72	15.60	0.00	101.59	101.45	15.50	0.00	103.08	100.86
6	1.70	0.00	103.49	100.20	100.23	098.57	31.10	0.00	101.46	101.81	32.60	0.00	103.20	101.37
7	1.70	0.00	103.87	100.70	100.42	098.65	39.90	0.00	102.11	101.56	41.30	0.00	103.27	101.78
8	1.70	0.00	104.43	101.26	100.74	099.49	40.90	0.00	103.29	101.41	40.60	0.00	102.45	102.04
9	1.70	0.00	105.17	101.95	101.43	100.55	40.20	0.00	103.86	101.53	40.10	0.00	102.22	101.90
10	1.70	0.00	105.63	102.85	101.77	101.68	38.40	0.00	104.43	101.63	38.30	0.00	106.10	102.10
11	1.70	0.00	106.14	103.84	102.75	102.85	38.30	0.00	105.70	101.81	38.10	0.00	108.18	102.68
12	1.70	0.00	106.45	104.46	103.45	103.97	38.40	0.00	106.66	101.96	38.30	0.00	108.61	102.98
13	1.70	0.00	106.81	105.04	103.90	104.82	38.80	0.00	106.16	102.24	39.80	0.00	110.00	103.04
14	1.70	0.00	107.00	105.65	104.32	105.59	38.10	0.00	106.10	102.43	38.20	0.00	110.50	103.47
15	1.70	0.00	107.08	105.94	104.86	106.05	37.40	0.00	107.52	102.93	38.20	0.00	111.08	103.27
16	1.70	0.00	106.98	105.90	105.01	106.22	37.40	0.00	107.56	103.00	38.40	0.00	112.21	103.21
17	1.70	0.00	106.91	105.73	105.08	106.13	39.00	0.00	108.00	103.14	38.40	0.00	113.04	103.10
18	1.70	0.00	106.65	104.62	104.95	105.67	37.10	0.00	110.68	103.05	38.40	0.00	114.11	103.13
19	1.70	0.00	106.91	103.78	104.41	104.99	30.90	0.00	110.44	103.05	38.40	0.00	114.66	103.01
20	1.70	0.00	104.98	103.23	103.81	103.98	32.60	0.00	111.63	102.65	38.10	0.00	114.41	102.72
21	1.70	0.00	104.41	102.48	103.24	102.79	31.90	0.00	110.92	103.26	33.50	0.00	113.17	102.68
22	1.70	0.00	104.07	101.90	102.60	101.65	29.80	0.00	109.67	102.97	31.60	0.00	110.86	102.94
23	1.70	0.00	103.83	101.63	102.12	100.94	19.70	0.00	108.43	102.81	22.30	0.00	110.65	102.61
24	1.70	0.00	103.83	101.15	101.83	100.33	16.20	0.00	107.51	102.38	17.10	0.00	110.24	102.36

HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO	
	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	17.00	0.00	104.68	101.54	11.60	0.00	100.49	102.09	101.20	0.00	108.76	109.92	106.35	106.81
2	14.50	0.00	104.09	101.56	11.30	0.00	100.20	102.10	103.90	0.00	108.16	110.85	106.37	106.53
3	14.70	0.00	103.66	101.44	11.50	0.00	099.39	102.18	102.90	0.00	107.41	110.55	106.21	106.08
4	16.10	0.00	103.93	101.01	12.80	0.00	100.43	102.02	105.00	0.00	107.40	109.91	106.33	105.98
5	14.50	0.00	103.38	101.24	11.40	0.00	101.20	102.27	105.20	0.00	107.68	108.94	106.30	105.70
6	15.10	0.00	103.10	101.22	12.60	0.00	100.13	102.58	105.20	0.00	107.46	109.07	106.19	105.53
7	32.10	0.00	104.54	101.34	32.20	0.00	100.74	103.18	138.30	0.00	107.28	108.88	106.21	105.33
8	39.10	0.00	105.47	101.75	35.40	0.00	100.72	104.22	156.20	0.00	106.58	108.97	106.46	105.34
9	48.60	0.00	104.97	102.34	49.00	0.00	103.92	104.02	161.90	0.00	107.34	108.21	106.50	105.33
10	49.40	0.00	104.45	102.58	49.50	0.00	104.05	104.40	161.50	0.00	110.36	108.13	106.66	105.60
11	49.50	0.00	105.71	103.22	51.20	0.00	101.85	104.35	162.00	0.00	111.73	109.34	107.27	105.91
12	54.00	0.00	104.00	104.05	53.20	0.00	101.50	104.37	170.90	0.00	113.24	109.13	107.72	106.36
13	48.70	0.00	104.74	104.31	51.50	0.00	102.37	104.98	172.20	0.00	113.14	109.83	107.90	106.46
14	42.50	0.00	107.58	104.64	51.20	0.00	103.25	105.08	172.60	0.00	114.01	110.33	108.09	106.63
15	42.30	0.00	109.49	104.90	42.00	0.00	102.90	105.24	172.10	0.00	112.72	110.86	108.57	106.86
16	39.30	0.00	110.67	104.98	37.50	0.00	102.29	105.57	172.60	0.00	111.17	112.26	108.66	107.04
17	40.50	0.00	111.35	105.05	35.60	0.00	102.32	105.49	172.20	0.00	112.43	111.23	108.67	107.24
18	38.90	0.00	113.28	104.92	35.50	0.00	101.55	105.85	172.10	0.00	112.07	112.39	108.76	107.43
19	34.60	0.00	114.68	104.55	37.10	0.00	101.57	104.82	172.70	0.00	111.77	112.97	108.89	107.58
20	34.90	0.00	114.60	103.96	35.00	0.00	101.05	104.67	172.80	0.00	114.83	110.73	108.74	107.71
21	31.00	0.00	114.29	103.60	32.90	0.00	100.23	104.42	172.40	0.00	115.21	110.42	108.49	107.70
22	30.30	0.00	113.72	103.06	30.20	0.00	099.91	103.64	170.30	0.00	114.92	111.54	108.17	107.74
23	17.90	0.00	113.16	102.65	18.80	0.00	099.60	103.53	119.30	0.00	113.71	110.21	107.98	107.58
24	18.40	0.00	112.91	102.33	18.00	0.00	098.78	103.90	99.10	0.00	113.27	110.88	108.23	107.58

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HOUR	DWRSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	
1	1.70	0.00	103.58	999.17	100.34	100.61	999.17	27.40	0.00	999.71	999.72	22.00	0.00	101.68	101.49	
2	1.70	0.00	103.50	998.85	100.18	100.47	998.85	17.80	0.00	999.80	999.40	14.50	0.00	102.07	101.36	
3	1.70	0.00	103.31	999.99	999.99	100.20	998.65	17.10	0.00	999.77	999.47	14.50	0.00	101.86	101.16	
4	1.70	0.00	103.37	999.80	999.80	999.89	998.33	17.40	0.00	999.60	999.43	14.60	0.00	101.81	100.69	
5	1.70	0.00	103.44	999.76	999.64	998.13	18.30	0.00	999.56	999.95	14.70	0.00	101.62	100.50		
6	1.70	0.00	103.56	999.79	999.68	998.12	25.90	0.00	999.65	100.05	19.80	0.00	101.50	100.62		
7	1.70	0.00	103.79	999.20	999.85	998.29	33.90	0.00	999.60	999.69	25.20	0.00	101.30	100.72		
8	1.70	0.00	104.35	100.66	100.34	999.15	37.60	0.00	999.73	999.68	35.60	0.00	101.32	101.23		
9	1.70	0.00	104.76	101.33	100.89	100.11	37.80	0.00	100.00	999.77	38.80	0.00	101.28	101.46		
10	1.70	0.00	105.48	101.90	101.33	101.16	38.40	0.00	100.09	999.96	38.80	0.00	101.26	101.60		
11	1.70	0.00	106.18	103.12	102.24	102.24	37.70	0.00	100.21	999.97	38.80	0.00	101.24	101.62		
12	1.70	0.00	106.66	103.83	102.84	103.35	37.70	0.00	999.97	100.23	38.80	0.00	101.28	101.70		
13	1.70	0.00	106.81	104.67	103.35	104.31	37.60	0.00	100.43	100.57	38.90	0.00	101.33	101.85		
14	1.70	0.00	106.91	105.26	104.00	105.24	37.80	0.00	100.92	100.64	42.60	0.00	101.26	101.94		
15	1.70	0.00	106.96	105.50	104.30	105.54	38.50	0.00	101.23	101.07	43.00	0.00	101.23	101.89		
16	1.70	0.00	106.89	105.60	104.64	105.86	37.90	0.00	101.82	101.28	43.30	0.00	101.28	101.92		
17	1.70	0.00	106.58	105.23	104.90	105.69	41.00	0.00	101.92	101.36	44.70	0.00	101.53	101.86		
18	1.70	0.00	106.16	104.17	104.76	105.28	39.50	0.00	101.90	101.23	44.90	0.00	102.45	101.88		
19	1.70	0.00	106.58	103.33	104.21	104.59	39.40	0.00	102.36	101.16	45.90	0.00	102.60	101.88		
20	1.70	0.00	104.64	102.79	103.67	103.68	39.60	0.00	102.75	100.98	45.10	0.00	102.45	101.74		
21	1.70	0.00	103.94	102.05	102.97	102.61	42.60	0.00	102.83	102.30	46.60	0.00	102.97	101.49		
22	1.70	0.00	103.58	101.59	102.40	101.57	40.60	0.00	102.92	101.56	44.50	0.00	102.24	101.54		
23	1.70	0.00	103.36	101.12	102.08	100.84	30.30	0.00	102.21	101.41	27.80	0.00	102.02	101.40		
24	1.70	0.00	103.31	100.79	101.66	100.25	27.00	0.00	102.46	101.12	25.50	0.00	102.42	101.33		
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT		
1	18.80	0.00	102.39	999.91	24.40	0.00	101.35	102.46	77.50	0.00	106.17	106.07	105.69	106.46		
2	14.60	0.00	102.35	999.78	13.80	0.00	100.60	102.77	66.50	0.00	105.78	105.76	105.80	106.28		
3	14.30	0.00	102.14	100.03	10.30	0.00	100.03	102.05	66.10	0.00	105.35	106.01	105.36	105.97		
4	14.30	0.00	102.09	999.92	10.10	0.00	998.63	101.89	68.40	0.00	105.42	105.94	105.15	105.80		
5	14.50	0.00	101.54	999.99	10.00	0.00	999.64	101.85	71.40	0.00	105.30	105.90	105.25	105.48		
6	19.00	0.00	101.24	100.09	12.00	0.00	100.32	101.83	71.70	0.00	105.62	105.66	105.34	105.17		
7	20.00	0.00	101.18	100.30	18.40	0.00	100.29	102.47	98.80	0.00	105.70	105.50	105.73	104.88		
8	28.20	0.00	101.20	101.15	27.80	0.00	100.23	103.33	131.90	0.00	106.77	105.88	105.98	104.74		
9	37.30	0.00	101.18	101.59	32.60	0.00	100.11	104.19	135.40	0.00	106.78	106.33	105.98	104.71		
10	39.50	0.00	102.13	101.92	38.60	0.00	100.40	104.23	136.10	0.00	106.40	106.24	106.23	104.91		
11	41.70	0.00	101.08	102.13	39.20	0.00	100.13	104.12	135.50	0.00	107.36	106.28	106.56	105.19		
12	41.80	0.00	101.68	102.07	39.30	0.00	999.64	104.26	133.30	0.00	107.82	106.82	106.74	105.37		
13	42.60	0.00	109.42	102.12	38.80	0.00	100.53	104.30	133.50	0.00	109.41	107.16	107.07	105.67		
14	46.60	0.00	105.07	102.49	45.10	0.00	104.27	104.43	119.80	0.00	110.41	107.24	107.13	105.97		
15	45.50	0.00	104.62	102.71	46.80	0.00	102.34	104.48	116.40	0.00	110.89	107.71	107.36	106.33		
16	45.30	0.00	104.15	102.84	45.90	0.00	101.37	104.23	119.00	0.00	111.52	108.34	107.44	106.55		
17	47.30	0.00	103.71	102.93	49.20	0.00	101.30	104.17	119.20	0.00	109.73	108.25	107.53	106.87		
18	47.60	0.00	103.32	102.89	50.90	0.00	101.20	103.65	117.90	0.00	109.41	108.10	107.59	107.16		
19	48.60	0.00	102.56	102.74	49.50	0.00	101.88	103.42	119.70	0.00	109.77	107.98	107.48	107.20		
20	47.50	0.00	102.54	102.39	48.10	0.00	101.89	103.51	119.70	0.00	109.49	108.16	107.32	107.16		
21	47.20	0.00	102.50	102.18	48.90	0.00	102.02	102.95	118.80	0.00	108.08	108.19	107.03	107.18		
22	46.80	0.00	103.64	101.92	47.30	0.00	101.56	102.79	119.90	0.00	107.76	107.87	106.72	107.13		
23	29.70	0.00	105.08	101.62	30.60	0.00	100.61	102.50	99.90	0.00	109.32	107.32	106.59	107.11		
24	28.20	0.00	105.49	101.71	22.70	0.00	100.05	102.25	99.50	0.00	108.91	106.91	106.55	107.11		

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HOUR	DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
	TOTAL DISCH KCFS	SPILL KCFS	GAS TAILW.	%SAT	ANATONE %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT
1	1.70	0.00	103.85	101.18	101.42	100.24	17.20	0.00	099.29	098.92	14.70	0.00	100.43	100.96	
2	1.70	0.00	103.85	100.89	101.21	099.84	25.10	0.00	099.68	098.90	14.80	0.00	100.28	100.92	
3	1.70	0.00	103.82	100.67	101.06	099.53	27.70	0.00	099.91	099.00	20.20	0.00	100.25	100.84	
4	1.70	0.00	103.63	100.42	100.66	099.24	28.10	0.00	099.96	098.78	20.60	0.00	100.23	100.83	
5	1.70	0.00	103.70	100.24	100.35	098.89	27.80	0.00	100.21	099.40	20.50	0.00	100.05	100.65	
6	1.70	0.00	103.64	100.20	100.14	098.71	27.10	0.00	100.04	099.13	20.70	0.00	100.19	100.65	
7	1.70	0.00	104.15	100.71	100.24	098.93	27.40	0.00	099.77	099.27	20.80	0.00	100.15	100.79	
8	1.70	0.00	104.74	101.48	100.58	099.52	29.40	0.00	099.91	099.25	24.90	0.00	100.19	101.30	
9	1.70	0.00	105.18	102.19	101.07	100.33	40.30	0.00	099.97	099.16	34.10	0.00	100.36	101.55	
10	1.70	0.00	105.72	102.62	101.57	101.35	41.00	0.00	099.65	099.36	34.90	0.00	100.53	101.69	
11	1.70	0.00	106.18	102.93	102.05	102.07	41.40	0.00	100.32	099.53	44.90	0.00	100.55	102.12	
12	1.70	0.00	106.47	103.24	102.29	102.64	42.60	0.00	100.24	099.81	49.70	0.00	100.56	101.93	
13	1.70	0.00	106.59	104.03	102.51	103.38	41.60	0.00	100.01	100.13	46.30	0.00	100.79	101.93	
14	1.70	0.00	106.63	104.57	102.78	103.71	41.60	0.00	100.03	100.03	47.90	0.00	100.76	101.81	
15	1.70	0.00	106.55	104.71	103.12	103.86	43.50	0.00	100.01	100.03	46.30	0.00	100.79	102.08	
16	1.70	0.00	106.26	104.30	103.05	103.57	41.20	0.00	100.16	100.03	48.20	0.00	100.94	102.07	
17	1.70	0.00	105.65	103.45	102.86	103.01	41.70	0.00	100.04	099.89	46.80	0.00	100.92	102.24	
18	1.70	0.00	104.82	103.27	102.70	102.74	41.00	0.00	099.91	100.01	47.60	0.00	100.91	102.00	
19	1.70	0.00	105.65	102.72	102.56	102.58	42.70	0.00	100.15	099.85	45.20	0.00	100.94	102.00	
20	1.70	0.00	104.26	102.30	102.14	102.05	37.00	0.00	100.15	100.00	41.90	0.00	100.92	101.71	
21	1.70	0.00	104.06	101.67	101.92	101.13	38.90	0.00	100.08	100.64	39.80	0.00	101.00	101.68	
22	1.70	0.00	103.54	101.19	101.56	100.46	31.10	0.00	099.93	100.28	35.60	0.00	101.11	101.47	
23	1.70	0.00	103.45	100.74	101.26	099.85	30.90	0.00	099.72	099.88	30.40	0.00	101.27	101.55	
24	1.70	0.00	103.50	100.54	100.88	099.49	31.90	0.00	099.64	099.77	28.30	0.00	101.35	101.46	
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT	GAS % SAT	
1	14.80	0.00	101.55	099.52	13.80	0.00	100.69	102.33	67.30	0.00	106.95	106.84	106.77	110.14	
2	13.90	0.00	101.12	099.81	11.60	0.00	099.77	102.21	79.10	0.00	107.35	107.76	106.74	109.98	
3	13.90	0.00	100.95	099.62	11.40	0.00	099.20	102.30	79.70	0.00	107.41	107.87	106.69	109.83	
4	13.90	0.00	100.79	099.59	11.40	0.00	099.32	102.16	86.50	0.00	106.13	107.97	106.52	109.51	
5	14.10	0.00	100.89	099.51	11.40	0.00	098.78	102.78	88.30	0.00	106.66	108.09	106.52	109.25	
6	13.90	0.00	100.87	099.51	12.70	0.00	098.62	102.80	87.30	0.00	106.37	108.07	106.49	108.97	
7	14.10	0.00	101.03	099.91	11.60	0.00	098.87	103.08	88.90	0.00	106.88	108.10	106.62	108.97	
8	19.90	0.00	101.43	100.58	14.50	0.00	098.37	103.84	104.60	0.00	107.68	107.97	106.89	108.82	
9	28.60	0.00	101.43	100.96	24.40	0.00	098.11	104.32	105.50	0.00	107.95	108.25	107.21	108.84	
10	29.10	0.00	101.07	101.29	26.70	0.00	099.24	105.47	99.90	0.00	107.42	108.01	107.24	109.17	
11	45.50	0.00	101.11	101.41	39.00	0.00	100.71	104.97	101.90	0.00	106.63	108.22	107.57	109.32	
12	50.10	0.00	101.08	101.30	50.20	0.00	101.16	105.10	100.80	0.00	106.42	108.52	107.63	109.49	
13	55.90	0.00	100.92	101.25	56.30	0.00	103.55	104.07	96.10	0.00	108.02	108.80	107.50	109.51	
14	54.60	0.00	101.24	101.42	56.20	0.00	103.04	104.38	95.70	0.00	107.49	108.38	107.67	109.94	
15	56.50	0.00	101.77	101.30	56.90	0.00	102.54	103.70	94.50	0.00	107.12	107.76	107.67	109.88	
16	55.20	0.00	101.78	101.25	60.30	0.00	102.28	103.48	93.60	0.00	106.64	107.83	107.71	109.07	
17	56.50	0.00	101.11	101.30	60.80	0.00	103.40	103.92	94.90	0.00	110.07	107.70	107.74	108.43	
18	54.80	0.00	100.60	101.20	61.20	0.00	103.56	104.06	95.10	0.00	111.04	107.45	107.54	108.12	
19	52.30	0.00	101.15	101.60	54.90	0.00	103.83	103.93	95.10	0.00	111.10	107.64	107.39	107.84	
20	44.10	0.00	102.34	101.04	49.90	0.00	103.96	103.49	94.10	0.00	109.36	107.31	107.04	107.84	
21	45.30	0.00	101.90	100.94	50.40	0.00	103.80	103.17	95.20	0.00	107.43	107.26	106.89	107.64	
22	36.70	0.00	102.93	100.58	41.10	0.00	103.25	102.80	96.00	0.00	107.10	107.33	106.54	107.22	
23	31.20	0.00	102.96	100.50	38.00	0.00	102.50	102.69	93.20	0.00	107.25	106.95	106.34	107.02	
24	30.30	0.00	102.59	100.41	28.30	0.00	101.93	102.62	89.30	0.00	106.81	106.51	105.89	107.02	

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HOUR	DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	
1	1.70	0.00	104.34	101.74	101.88	100.93	27.50	0.00	100.00	998.81	18.90	0.00	100.39	100.80		
2	1.70	0.00	104.36	101.54	101.54	100.52	27.40	0.00	100.04	998.69	19.80	0.00	100.47	100.81		
3	1.70	0.00	104.23	101.40	101.27	100.11	27.40	0.00	100.04	998.85	18.30	0.00	100.47	100.69		
4	1.70	0.00	104.07	101.31	101.06	999.84	27.40	0.00	100.19	998.82	18.30	0.00	100.28	100.64		
5	1.70	0.00	104.16	101.15	100.66	999.53	28.50	0.00	100.34	999.36	18.80	0.00	100.36	100.60		
6	1.70	0.00	104.28	101.15	100.51	999.33	27.10	0.00	100.42	999.16	27.20	0.00	100.47	100.69		
7	1.70	0.00	104.56	101.24	100.50	999.46	27.60	0.00	100.75	999.12	28.00	0.00	100.71	100.80		
8	1.70	0.00	105.00	101.70	100.84	100.17	39.80	0.00	100.76	999.16	30.20	0.00	100.71	100.96		
9	1.70	0.00	105.63	102.28	101.42	100.99	49.20	0.00	100.93	999.29	41.00	0.00	100.76	101.43		
10	1.70	0.00	106.21	102.91	101.76	101.88	52.20	0.00	101.33	999.48	49.70	0.00	100.82	101.81		
11	1.70	0.00	107.01	103.94	102.64	102.86	49.80	0.00	101.25	999.64	54.70	0.00	101.00	102.11		
12	1.70	0.00	107.49	104.67	103.30	103.86	49.90	0.00	101.59	999.81	59.20	0.00	100.96	102.39		
13	1.70	0.00	107.95	105.18	103.73	104.75	50.00	0.00	102.39	999.97	59.50	0.00	100.88	102.22		
14	1.70	0.00	107.98	105.69	104.23	105.31	50.00	0.00	100.52	100.00	60.50	0.00	100.95	102.18		
15	1.70	0.00	107.86	105.87	104.72	105.73	50.10	0.00	999.76	100.17	60.90	0.00	100.91	102.08		
16	1.70	0.00	107.91	105.87	104.99	105.89	52.50	0.00	999.81	100.17	61.10	0.00	100.99	102.11		
17	1.70	0.00	107.32	105.64	104.98	105.79	49.80	0.00	999.96	999.97	60.90	0.00	101.00	102.02		
18	1.70	0.00	106.77	104.41	104.68	105.41	40.60	0.00	100.09	999.69	45.80	0.00	100.98	102.05		
19	1.70	0.00	107.32	103.79	104.24	104.60	40.20	0.00	100.09	999.68	45.00	0.00	101.00	101.90		
20	1.70	0.00	104.88	103.20	103.70	103.62	38.70	0.00	999.78	999.26	42.90	0.00	100.86	101.65		
21	1.70	0.00	104.31	102.57	103.00	102.47	31.70	0.00	999.77	100.04	38.20	0.00	100.79	101.60		
22	1.70	0.00	103.93	102.07	102.54	101.71	30.60	0.00	999.44	999.30	32.80	0.00	100.71	101.51		
23	1.70	0.00	103.88	101.61	102.12	101.11	17.40	0.00	999.42	999.16	20.90	0.00	100.68	101.17		
24	1.70	0.00	104.00	101.35	101.72	100.67	16.90	0.00	999.34	998.93	16.30	0.00	100.56	101.24		
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT		
1	13.60	0.00	101.99	999.91	17.90	0.00	102.60	102.52	115.70	0.00	106.23	110.08	106.06	109.36		
2	13.60	0.00	101.74	100.04	18.10	0.00	102.87	102.62	117.00	0.00	106.23	110.05	106.21	109.34		
3	13.50	0.00	101.61	100.00	17.90	0.00	102.84	102.89	106.00	0.00	105.65	109.49	106.32	109.33		
4	13.90	0.00	101.58	999.83	17.80	0.00	102.93	102.87	102.60	0.00	106.34	109.23	106.42	109.18		
5	13.60	0.00	101.67	999.75	17.80	0.00	102.63	102.83	104.30	0.00	106.80	108.93	106.54	108.87		
6	13.90	0.00	101.72	999.80	18.00	0.00	102.98	102.92	105.50	0.00	106.84	108.71	106.64	108.70		
7	27.80	0.00	101.18	100.35	20.30	0.00	102.96	103.16	137.60	0.00	106.18	108.82	106.97	108.36		
8	29.40	0.00	100.94	100.80	20.70	0.00	103.10	103.81	152.00	0.00	104.69	108.82	107.36	108.23		
9	40.50	0.00	101.08	100.98	29.10	0.00	102.53	104.38	165.30	0.00	104.45	108.76	107.73	108.49		
10	52.60	0.00	102.27	101.14	39.20	0.00	102.81	105.10	164.30	0.00	105.17	109.08	107.92	108.92		
11	54.80	0.00	101.15	101.52	49.00	0.00	103.34	105.20	164.40	0.00	108.61	108.83	108.05	109.36		
12	59.90	0.00	101.00	101.60	59.80	0.00	103.80	104.68	162.90	0.00	109.86	108.90	108.11	109.88		
13	60.90	0.00	101.08	101.76	61.00	0.00	103.19	105.17	164.80	0.00	110.29	108.80	108.01	110.36		
14	60.80	0.00	102.28	101.81	62.30	0.00	103.08	105.23	162.10	0.00	110.45	108.68	108.09	110.54		
15	60.90	0.00	100.35	102.04	61.40	0.00	103.51	104.96	163.40	0.00	109.70	108.40	108.03	110.73		
16	60.60	0.00	100.51	101.98	59.80	0.00	103.72	104.96	162.90	0.00	109.52	108.31	107.80	110.90		
17	62.20	0.00	101.35	101.62	61.10	0.00	103.63	105.08	163.70	0.00	110.31	108.06	107.71	111.07		
18	61.10	0.00	101.10	101.40	59.70	0.00	104.43	104.95	138.70	0.00	110.21	107.72	107.57	111.35		
19	60.80	0.00	101.10	101.26	59.60	0.00	104.83	104.35	138.40	0.00	110.24	107.78	107.44	111.46		
20	51.10	0.00	101.06	100.92	61.70	0.00	105.33	103.77	138.00	0.00	109.92	107.51	107.18	111.13		
21	48.80	0.00	100.99	100.68	47.30	0.00	104.08	103.75	119.10	0.00	109.78	107.37	106.90	111.24		
22	41.70	0.00	101.49	100.57	45.50	0.00	102.92	103.12	100.20	0.00	108.84	107.00	106.74	110.90		
23	35.50	0.00	101.67	100.20	33.60	0.00	102.05	102.69	68.80	0.00	107.65	106.84	106.35	110.51		
24	19.90	0.00	101.40	999.49	25.30	0.00	101.57	102.42	67.50	0.00	107.63	106.63	106.29	110.51		

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	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR:	TOTAL DISCH. KCFS	SPIILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPIILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPIILL KCFS	GAS FB	%SAT. TAILW.
1	1.70	0.00	104.43	?UNDEF	101.90	100.77	27.80	0.00	100.19	999.61	26.20	0.00	999.46	100.21
2	1.70	0.00	104.38	101.18	101.72	100.46	27.70	0.00	100.11	999.41	19.00	0.00	999.28	100.15
3	1.70	0.00	104.31	100.99	101.36	100.21	27.70	0.00	999.92	999.38	18.40	0.00	999.13	100.12
4	1.70	0.00	104.08	100.81	101.19	999.95	27.90	0.00	999.77	999.34	18.40	0.00	999.06	999.93
5	1.70	0.00	104.03	100.61	100.83	999.74	29.40	0.00	999.74	999.69	18.30	0.00	999.00	999.88
6	1.70	0.00	104.05	100.70	100.54	999.54	28.20	0.00	999.64	999.49	19.00	0.00	998.93	999.83
7	1.70	0.00	104.29	100.93	100.64	999.76	39.30	0.00	999.60	999.61	38.20	0.00	998.92	100.33
8	1.70	0.00	104.96	101.28	100.89	100.25	42.70	0.00	999.72	999.60	41.50	0.00	998.85	100.31
9	1.70	0.00	105.54	101.85	101.31	101.05	44.90	0.00	999.85	999.53	46.40	0.00	999.23	100.27
10	1.80	0.00	106.08	102.55	101.75	102.02	44.00	0.00	999.85	999.71	48.80	0.00	998.99	100.43
11	1.70	0.00	106.60	103.36	102.48	102.80	44.70	0.00	999.48	999.71	48.60	0.00	999.68	100.44
12	1.70	0.00	107.26	104.06	103.13	103.77	45.20	0.00	999.42	999.83	51.10	0.00	999.53	100.56
13	1.70	0.00	107.44	104.47	103.65	104.60	46.20	0.00	100.67	999.84	50.00	0.00	999.69	100.73
14	1.70	0.00	107.45	105.08	103.99	105.21	45.30	0.00	100.31	999.87	50.40	0.00	999.71	100.79
15	1.80	0.00	107.54	105.54	104.35	105.61	47.00	0.00	999.83	999.93	51.70	0.00	999.93	101.11
16	1.70	0.00	107.40	105.48	104.68	105.76	45.30	0.00	999.69	999.71	50.00	0.00	100.08	101.24
17	1.70	0.00	107.07	105.22	104.69	105.84	45.20	0.00	999.73	999.61	51.90	0.00	100.32	101.17
18	1.70	0.00	106.51	104.29	104.58	105.43	41.70	0.00	100.07	999.67	50.50	0.00	100.47	101.47
19	1.80	0.00	107.07	103.75	104.16	104.90	42.30	0.00	100.05	999.49	50.80	0.00	100.63	101.38
20	1.70	0.00	105.01	103.16	103.69	104.08	38.90	0.00	100.31	999.29	50.30	0.00	100.60	101.14
21	1.70	0.00	104.30	102.73	103.13	103.11	34.60	0.00	100.43	999.92	39.40	0.00	100.45	100.96
22	1.70	0.00	104.14	102.40	102.74	102.25	34.50	0.00	100.26	999.48	38.10	0.00	100.55	100.83
23	1.70	0.00	104.24	102.16	102.25	101.72	27.90	0.00	100.16	999.17	22.10	0.00	100.52	100.64
24	1.70	0.00	104.21	101.84	102.06	101.30	27.90	0.00	100.13	998.94	19.10	0.00	100.39	100.77

HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO	
	TOTAL DISCH KCFS	SPIILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPIILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPIILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	21.20	0.00	100.05	998.79	20.20	0.00	998.74	101.50	84.20	29.30	104.11	103.18	113.02	109.68
2	17.30	0.00	999.84	998.70	10.70	0.00	998.79	101.56	83.30	29.30	103.55	103.02	113.24	109.38
3	18.60	0.00	999.68	999.02	13.20	0.00	998.11	101.58	83.40	29.30	103.42	103.15	112.95	109.23
4	18.30	0.00	999.64	998.45	18.10	0.00	998.23	101.55	83.30	29.30	103.38	103.26	112.79	109.07
5	18.10	0.00	999.60	998.50	18.10	0.00	998.28	101.63	83.20	29.30	103.06	102.53	112.84	108.76
6	20.10	0.00	999.64	999.07	18.90	0.00	998.10	102.24	85.20	28.40	103.40	102.31	112.92	108.55
7	37.20	0.00	999.88	999.43	37.60	0.00	999.54	102.36	117.90	0.00	103.75	102.58	112.99	108.39
8	40.90	0.00	100.12	999.47	39.80	0.00	999.88	102.82	139.50	0.00	104.20	103.55	107.17	108.18
9	46.70	0.00	100.25	999.77	39.20	0.00	100.12	102.74	150.50	0.00	103.89	104.21	105.55	108.02
10	48.40	0.00	003.68	100.08	39.40	0.00	100.53	103.54	152.30	0.00	104.55	103.99	105.21	107.94
11	50.00	0.00	100.41	100.39	43.50	0.00	100.85	103.55	160.20	0.00	105.13	103.66	105.14	108.06
12	51.60	0.00	100.53	100.65	45.50	0.00	101.67	103.69	162.40	0.00	105.26	104.34	105.03	108.12
13	51.80	0.00	100.53	100.88	48.70	0.00	102.32	104.29	158.30	0.00	105.61	104.26	105.22	108.39
14	54.70	0.00	100.71	100.93	52.80	0.00	102.80	104.12	158.60	0.00	105.97	104.57	105.42	108.22
15	54.90	0.00	101.19	101.13	53.10	0.00	101.78	103.85	158.10	0.00	107.12	104.65	105.60	108.41
16	55.70	0.00	100.98	101.25	53.00	0.00	101.42	103.83	158.20	0.00	107.77	105.22	105.56	108.61
17	56.00	0.00	101.03	101.17	54.50	0.00	101.97	103.82	163.20	0.00	106.62	105.29	105.74	108.78
18	56.10	0.00	101.04	101.11	54.60	0.00	104.28	103.56	161.10	0.00	105.03	105.47	105.90	109.08
19	56.50	0.00	100.39	100.88	54.60	0.00	104.04	103.32	159.70	0.00	105.10	105.48	105.66	109.28
20	56.50	0.00	101.18	100.53	56.90	0.00	104.99	103.10	158.90	0.00	106.61	105.65	105.58	109.53
21	57.10	0.00	100.42	100.51	54.70	0.00	105.03	102.89	160.50	0.00	107.26	105.93	105.48	109.67
22	57.10	0.00	100.54	100.52	53.30	0.00	104.18	103.20	159.30	0.00	108.71	105.88	105.56	109.79
23	29.80	0.00	100.66	100.77	33.80	0.00	103.67	102.73	113.00	0.00	106.85	105.49	105.37	109.74
24	16.10	0.00	100.94	100.20	18.90	0.00	102.84	102.62	97.70	0.00	106.21	107.52	105.58	109.74

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WALLA WALLA DISTRICT HYDRO PROJECTS
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DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	
1	1.70	0.00	104.78	101.42	101.59	100.42	29.90	0.00	101.51	101.07	30.20	0.00	100.48	100.19	
2	1.70	0.00	104.96	101.31	101.48	100.28	28.10	0.00	101.28	100.56	30.40	0.00	100.74	100.19	
3	1.70	0.00	104.70	101.19	101.33	100.12	19.60	0.00	100.70	100.31	31.60	0.00	100.86	100.05	
4	1.70	0.00	104.96	101.15	101.23	099.80	16.50	0.00	100.70	100.15	16.60	0.00	100.76	100.01	
5	1.70	0.00	104.93	100.96	101.06	099.84	17.20	0.00	100.65	100.51	16.20	0.00	100.74	100.04	
6	1.70	0.00	104.96	101.08	101.07	099.64	28.70	0.00	100.65	100.63	16.70	0.00	100.16	099.84	
7	1.70	0.00	105.23	101.22	101.04	099.92	41.40	0.00	100.79	100.62	30.50	0.00	099.75	100.40	
8	1.70	0.00	105.68	101.67	101.38	100.42	46.40	0.00	100.81	100.67	48.20	0.00	099.61	100.52	
9	1.70	0.00	106.26	102.43	101.82	101.17	46.70	0.00	100.70	100.70	49.10	0.00	099.65	100.55	
10	1.70	0.00	106.91	102.77	102.24	101.88	48.10	0.00	100.75	100.77	50.40	0.00	099.68	100.54	
11	1.70	0.00	000.00	103.50	102.54	102.61	49.20	0.00	100.90	100.90	53.40	0.00	099.57	100.58	
12	1.70	0.00	107.72	103.84	103.10	103.18	50.40	0.00	100.93	100.89	54.50	0.00	099.57	100.78	
13	1.70	0.00	108.42	104.43	103.46	104.04	50.50	0.00	100.69	100.82	55.50	0.00	099.49	100.67	
14	1.70	0.00	000.00	104.68	104.07	104.75	50.30	0.00	100.59	100.86	54.30	0.00	099.64	100.71	
15	1.70	0.00	?UNDEF	104.67	104.36	105.21	47.60	0.00	100.76	100.89	54.10	0.00	099.56	100.87	
16	1.70	0.00	108.52	104.83	104.54	105.11	47.30	0.00	100.94	100.94	55.90	0.00	099.62	100.91	
17	1.70	0.00	107.63	104.73	104.42	104.77	46.90	0.00	101.27	100.96	48.50	0.00	099.68	101.09	
18	1.70	0.00	107.67	104.23	104.31	104.54	43.90	0.00	101.26	100.94	45.90	0.00	099.83	101.26	
19	1.70	0.00	107.63	103.82	104.05	104.21	41.40	0.00	101.15	100.62	45.70	0.00	099.83	100.99	
20	1.70	0.00	105.46	103.48	103.75	103.40	40.10	0.00	100.97	100.46	40.40	0.00	099.74	100.79	
21	1.70	0.00	105.00	102.80	103.34	102.55	36.20	0.00	100.92	101.21	40.50	0.00	099.65	100.55	
22	1.70	0.00	104.52	102.43	102.79	101.93	34.20	0.00	100.82	100.43	41.60	0.00	099.54	100.44	
23	1.70	0.00	104.33	102.01	102.59	101.47	28.00	0.00	100.73	100.21	25.30	0.00	099.58	100.36	
24	1.70	0.00	104.41	101.61	102.27	101.10	28.10	0.00	100.38	099.83	24.40	0.00	099.53	100.27	
LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT	
1	27.90	0.00	102.43	100.08	29.10	0.00	099.33	101.74	95.30	0.00	107.95	106.49	105.30	111.76	
2	29.40	0.00	100.70	099.96	27.80	0.00	098.93	101.57	95.70	0.00	107.98	107.83	105.43	111.67	
3	27.20	0.00	100.51	100.03	27.20	0.00	098.63	101.70	94.70	0.00	107.29	107.54	105.44	111.50	
4	15.00	0.00	100.40	099.29	15.10	0.00	098.44	101.66	94.80	0.00	106.49	107.27	105.12	111.36	
5	14.50	0.00	100.38	099.15	14.20	0.00	097.04	101.50	97.40	0.00	106.52	106.67	104.99	111.14	
6	14.80	0.00	101.02	099.63	12.80	0.00	097.30	101.64	128.30	0.00	105.89	106.95	104.93	111.01	
7	28.30	0.00	100.90	100.07	15.00	0.00	097.71	102.06	130.80	0.00	106.26	107.02	104.91	111.01	
8	35.10	0.00	101.17	100.51	29.40	0.00	097.74	103.24	140.20	0.00	106.33	107.26	105.19	110.73	
9	49.90	0.00	101.32	100.55	34.90	0.00	097.92	103.67	145.10	0.00	105.89	106.12	105.08	110.85	
10	49.00	0.00	100.75	100.83	45.00	0.00	098.30	103.79	145.70	0.00	104.09	106.33	105.15	111.07	
11	52.90	0.00	100.97	101.11	49.40	0.00	099.16	103.54	147.30	0.00	106.62	105.81	105.31	111.26	
12	59.10	0.00	100.59	101.18	52.80	0.00	099.44	103.80	146.00	0.00	108.97	105.88	105.35	111.32	
13	62.10	0.00	100.70	101.22	56.00	0.00	101.33	103.68	147.30	0.00	109.00	105.23	105.42	111.21	
14	62.10	0.00	101.51	101.43	59.90	0.00	101.77	103.52	141.50	0.00	108.74	104.47	105.17	111.26	
15	61.50	0.00	102.06	101.46	60.40	0.00	102.62	103.66	144.90	0.00	108.35	104.41	105.05	111.29	
16	60.50	0.00	102.66	101.41	61.70	0.00	102.95	103.67	142.20	0.00	107.90	103.88	104.86	111.58	
17	60.40	0.00	102.01	101.14	60.40	0.00	102.83	103.58	139.80	0.00	108.19	104.29	104.60	111.60	
18	56.50	0.00	101.06	101.03	60.40	0.00	102.61	103.42	127.40	0.00	107.78	103.93	104.49	111.53	
19	55.70	0.00	101.14	100.83	60.70	0.00	102.90	102.79	128.10	29.30	107.14	104.06	106.85	111.29	
20	41.80	0.00	102.34	100.23	59.60	0.00	102.31	102.33	128.70	29.30	106.14	103.70	110.64	111.20	
21	40.30	0.00	100.09	099.99	59.20	0.00	101.96	102.09	130.40	29.30	105.72	103.27	111.57	110.96	
22	39.50	0.00	100.67	099.43	43.70	0.00	101.29	101.88	114.20	29.30	104.59	103.15	111.92	110.70	
23	23.90	0.00	100.82	098.77	24.90	0.00	100.52	101.74	83.80	29.30	104.11	102.90	112.60	110.46	
24	21.30	0.00	100.67	098.95	23.30	0.00	099.27	101.55	83.90	29.30	104.08	102.97	112.94	110.46	

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HOUR	DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
	TOTAL DISCH. KCFS	SPILL KCFS	GAS TAILW.	%SAT	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	
1	1.60	0.00	105.93	100.58	100.93	099.41	27.70	0.00	101.50	101.06	22.60	0.00	098.29	099.01		
2	1.60	0.00	105.82	100.42	100.98	099.28	27.60	0.00	101.37	100.83	20.90	0.00	098.24	099.15		
3	1.70	0.00	105.94	100.45	100.81	099.13	27.70	0.00	101.23	100.80	19.40	0.00	098.26	098.87		
4	1.70	0.00	105.99	100.32	100.74	099.05	27.60	0.00	101.17	100.60	19.30	0.00	098.12	098.88		
5	1.70	0.00	106.14	100.34	100.60	098.93	28.50	0.00	101.15	101.23	19.90	0.00	098.04	098.81		
6	1.60	0.00	106.08	100.34	100.60	098.86	41.50	0.00	101.53	101.12	28.50	0.00	098.04	098.80		
7	1.70	0.00	106.19	100.57	100.50	099.01	40.30	0.00	102.16	100.92	39.70	0.00	097.85	099.19		
8	1.70	0.00	106.18	100.66	100.47	099.22	48.10	0.00	101.53	101.11	47.70	0.00	098.33	099.59		
9	1.70	0.00	106.43	100.96	100.62	099.61	47.10	0.00	100.98	101.26	50.80	0.00	098.75	099.87		
10	1.70	0.00	106.51	101.51	100.87	100.09	47.90	0.00	101.19	101.31	50.60	0.00	098.48	099.89		
11	1.70	0.00	106.54	101.87	101.16	100.48	47.60	0.00	101.17	101.18	50.00	0.00	098.60	100.01		
12	1.70	0.00	106.22	102.43	101.19	100.68	48.20	0.00	101.27	101.04	50.00	0.00	098.48	099.91		
13	1.70	0.00	106.40	102.72	101.57	101.11	51.60	0.00	101.17	101.04	49.90	0.00	098.61	099.96		
14	1.70	0.00	106.43	103.36	101.97	101.98	48.90	0.00	101.23	100.94	52.30	0.00	098.68	100.03		
15	1.70	0.00	106.48	103.83	102.02	102.86	48.70	0.00	101.33	100.87	50.00	0.00	098.74	100.35		
16	1.70	0.00	106.37	103.88	102.34	103.18	44.20	0.00	101.77	101.08	50.10	0.00	098.81	100.29		
17	1.70	0.00	106.25	104.08	102.36	103.52	42.60	0.00	102.42	101.29	50.20	0.00	098.92	100.29		
18	1.70	0.00	106.03	103.63	102.47	103.55	42.70	0.00	103.93	101.35	50.00	0.00	099.13	100.29		
19	1.70	0.00	106.25	103.26	102.35	103.18	44.90	0.00	103.98	101.15	50.00	0.00	099.04	100.36		
20	1.70	0.00	105.79	102.88	102.22	102.54	44.00	0.00	103.16	101.21	50.00	0.00	099.22	100.25		
21	1.70	0.00	105.26	102.49	102.09	101.75	42.40	0.00	102.52	102.24	50.20	0.00	099.21	099.99		
22	1.70	0.00	104.99	102.02	101.78	101.24	42.40	0.00	101.95	101.10	49.50	0.00	099.61	099.97		
23	1.70	0.00	104.84	101.77	101.60	100.83	44.10	0.00	101.33	100.90	32.70	0.00	099.61	099.84		
24	1.70	0.00	104.75	101.54	101.53	100.61	42.10	0.00	102.13	100.76	30.00	0.00	100.04	100.16		
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT		
1	21.90	0.00	100.45	099.47	36.60	0.00	098.57	101.46	109.80	28.90	105.24	105.99	113.04	109.64		
2	19.60	0.00	100.43	099.43	21.80	0.00	098.26	101.31	109.70	28.90	105.05	105.70	113.50	109.48		
3	19.50	0.00	100.44	099.56	19.70	0.00	098.49	101.18	112.10	28.90	105.04	105.72	113.37	109.61		
4	19.80	0.00	100.35	099.46	19.30	0.00	098.28	101.21	111.80	28.90	104.96	105.57	113.52	109.64		
5	19.50	0.00	100.25	099.36	19.40	0.00	097.80	101.67	115.50	28.90	104.85	105.24	113.30	109.41		
6	20.20	0.00	100.21	099.35	20.60	0.00	097.76	101.77	138.20	27.70	104.78	105.58	113.24	109.41		
7	30.30	0.00	100.35	099.74	19.40	0.00	097.77	101.80	143.40	0.00	104.80	105.42	112.91	109.36		
8	41.80	0.00	100.48	100.01	28.80	0.00	097.72	102.80	148.70	1.20	104.90	105.17	108.82	109.35		
9	48.70	0.00	100.21	100.38	38.10	0.00	097.77	102.90	144.00	1.00	104.92	105.15	106.90	109.66		
10	49.60	0.00	100.27	100.41	44.30	0.00	098.18	103.60	139.40	1.00	105.10	105.49	106.30	109.94		
11	49.20	0.00	100.28	100.90	44.70	0.00	098.48	102.93	129.10	0.00	106.60	105.50	106.21	110.39		
12	53.70	0.00	100.17	100.70	52.50	0.00	098.38	102.94	127.40	0.00	107.05	105.54	106.28	110.66		
13	52.70	0.00	100.20	101.00	55.40	0.00	098.53	102.97	127.10	.40	107.57	105.33	106.04	110.96		
14	52.70	0.00	100.27	101.25	52.70	0.00	098.73	103.26	124.40	0.00	107.47	105.30	106.27	111.18		
15	49.70	0.00	100.37	101.32	52.50	0.00	098.79	102.99	126.50	0.00	108.09	105.25	106.11	111.27		
16	52.10	0.00	100.66	101.41	52.90	0.00	098.87	103.45	126.90	0.00	108.53	105.45	106.32	111.38		
17	53.30	0.00	100.62	101.28	54.40	0.00	099.08	102.91	126.90	0.00	109.19	105.42	106.02	111.58		
18	52.30	0.00	100.58	101.24	52.90	0.00	099.16	102.69	129.20	0.00	107.82	105.68	105.96	111.69		
19	55.80	0.00	100.64	100.94	55.50	0.00	099.24	102.93	129.10	0.00	105.89	109.32	106.05	111.63		
20	56.40	0.00	100.54	100.67	54.60	0.00	099.57	102.16	128.30	0.00	106.20	110.96	106.13	111.82		
21	56.20	0.00	100.42	100.35	54.60	0.00	099.57	101.86	130.00	0.00	105.67	108.89	106.00	111.70		
22	55.50	0.00	100.83	100.19	54.60	0.00	099.75	101.89	128.70	0.00	105.42	107.90	105.82	111.82		
23	40.00	0.00	101.06	100.15	54.10	0.00	099.59	101.76	96.30	.60	107.09	106.40	105.38	111.94		
24	28.90	0.00	101.52	100.15	39.70	0.00	099.59	101.69	93.00	0.00	107.95	105.60	105.35	111.94		

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HOUR	DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
	TOTAL DISCH. KCFS	SPILL KCFS	GAS TAILW.	%SAT	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT	
1	1.60	0.00	105.22		101.06	101.41	100.16	29.80	0.00	103.70	102.62	29.10	0.00	098.79	099.53	
2	1.60	0.00	105.08		101.09	101.26	099.89	30.00	0.00	103.50	102.40	21.60	0.00	098.63	099.21	
3	1.60	0.00	105.03		100.92	101.13	099.72	29.40	0.00	103.34	102.22	20.80	0.00	098.61	099.21	
4	1.70	0.00	105.01		100.79	100.91	099.69	32.10	0.00	103.39	102.29	20.90	0.00	098.53	099.17	
5	1.60	0.00	105.08		100.69	100.75	099.46	30.90	0.00	103.06	102.91	26.00	0.00	098.46	099.32	
6	1.60	0.00	104.85		100.52	100.53	099.27	30.40	0.00	102.86	102.55	25.50	0.00	098.39	099.10	
7	1.60	0.00	104.93		100.60	100.44	099.23	40.50	0.00	102.75	102.47	39.70	0.00	098.19	099.21	
8	1.70	0.00	105.01		100.60	100.37	099.41	43.00	0.00	103.26	102.43	43.90	0.00	098.18	099.30	
9	1.70	0.00	104.96		101.10	100.30	099.77	46.10	0.00	103.10	102.42	48.30	0.00	098.15	099.59	
10	1.70	0.00	106.03		101.80	100.63	100.16	44.10	0.00	102.99	102.43	46.60	0.00	098.53	099.40	
11	1.70	0.00	107.48		102.15	100.88	100.73	48.10	0.00	102.78	102.37	46.40	0.00	098.61	099.38	
12	1.60	0.00	107.45		102.75	101.02	101.09	44.80	0.00	102.76	102.20	46.50	0.00	098.45	099.41	
13	1.70	0.00	107.77		102.56	101.44	101.17	44.80	0.00	102.61	102.19	46.30	0.00	098.49	099.49	
14	1.60	0.00	108.01		102.86	101.55	101.66	44.60	0.00	102.81	102.14	46.40	0.00	098.18	099.20	
15	1.60	0.00	108.19		103.05	102.07	101.21	44.60	0.00	102.51	102.08	46.40	0.00	098.30	099.88	
16	1.70	0.00	108.44		102.39	101.97	100.77	44.30	0.00	102.36	102.08	46.60	0.00	098.31	099.88	
17	1.70	0.00	107.73		102.31	101.49	101.32	45.70	0.00	102.39	101.96	47.60	0.00	098.60	099.76	
18	1.60	0.00	107.04		102.11	101.26	101.59	43.50	0.00	102.23	101.92	48.70	0.00	098.73	099.63	
19	1.60	0.00	107.73		101.80	101.09	101.56	40.40	0.00	102.08	101.65	47.20	0.00	098.57	099.64	
20	1.60	0.00	106.21		101.56	100.91	101.33	40.30	0.00	101.92	101.51	47.20	0.00	098.56	099.43	
21	1.70	0.00	106.11		101.07	100.84	100.67	44.50	0.00	101.74	103.20	48.80	0.00	098.48	099.23	
22	1.70	0.00	105.91		100.86	100.84	100.12	41.00	0.00	101.54	101.65	47.00	0.00	098.28	099.17	
23	1.60	0.00	105.49		100.69	100.73	099.79	34.10	0.00	101.50	101.59	40.60	0.00	098.37	098.97	
24	1.60	0.00	105.79		100.73	100.88	099.53	29.50	0.00	101.62	101.07	35.30	0.00	098.24	099.12	
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT		
1	29.60	0.00	101.97	101.23	29.60	0.00	099.02	102.75	120.90	0.00	107.94	108.48	108.05	105.78		
2	21.30	0.00	101.79	100.92	24.40	0.00	098.84	102.69	121.40	0.00	108.03	108.43	107.87	105.58		
3	19.90	0.00	101.57	100.96	20.30	0.00	098.21	102.65	121.50	0.00	107.84	108.05	107.92	105.26		
4	20.40	0.00	101.59	100.91	20.40	0.00	098.88	103.03	151.00	0.00	107.55	107.76	107.88	104.84		
5	26.40	0.00	101.36	100.85	13.60	0.00	099.23	102.84	172.70	0.00	107.20	107.61	107.67	104.55		
6	26.70	0.00	101.29	100.77	19.10	0.00	098.55	102.59	173.30	0.00	107.02	107.39	107.62	104.28		
7	35.50	0.00	101.10	100.87	25.30	0.00	098.42	102.81	172.70	0.00	106.98	107.58	107.69	104.24		
8	41.60	0.00	100.97	101.27	41.30	0.00	098.63	103.54	174.60	0.00	106.92	107.47	107.43	104.33		
9	50.10	0.00	101.15	101.21	49.80	0.00	098.74	103.62	174.40	0.00	107.07	107.42	107.40	104.66		
10	50.90	0.00	101.25	101.29	49.40	0.00	099.10	102.84	174.20	0.00	106.97	107.22	107.40	104.98		
11	51.00	0.00	101.03	101.25	49.40	0.00	098.88	102.67	173.20	0.00	107.32	107.31	107.18	105.34		
12	50.30	0.00	100.96	101.01	50.90	0.00	098.84	102.63	173.80	0.00	107.13	107.13	107.08	105.70		
13	52.20	0.00	100.80	100.84	51.60	0.00	098.82	102.78	173.60	0.00	106.72	106.56	106.83	106.40		
14	51.70	0.00	100.67	100.98	50.30	0.00	099.00	102.95	173.50	0.00	106.78	106.87	106.89	106.99		
15	52.10	0.00	100.67	101.01	51.10	0.00	098.90	103.30	173.60	0.00	106.86	106.57	106.96	107.34		
16	52.00	0.00	101.08	101.38	50.10	0.00	098.75	102.50	173.20	0.00	106.81	106.65	106.66	107.75		
17	52.10	0.00	100.91	101.28	51.70	0.00	098.74	102.87	172.70	0.00	106.78	107.22	106.92	108.39		
18	52.70	0.00	100.79	101.08	50.90	0.00	098.59	102.75	172.90	.30	107.00	107.25	106.74	108.90		
19	52.50	0.00	100.92	100.82	52.40	0.00	098.39	102.16	200.10	28.60	106.93	106.84	109.08	109.26		
20	52.80	0.00	100.70	100.49	50.80	0.00	098.35	102.07	177.90	28.90	106.41	106.55	111.82	109.35		
21	53.60	0.00	100.68	100.15	51.50	0.00	098.49	101.70	192.40	28.90	106.34	106.50	112.33	109.57		
22	54.20	0.00	100.69	100.41	50.30	0.00	098.29	101.46	193.40	28.90	105.74	106.14	112.24	109.57		
23	42.80	0.00	100.71	099.83	42.50	0.00	098.66	101.43	157.40	28.90	105.49	106.01	112.10	109.63		
24	39.50	0.00	100.55	100.12	41.80	0.00	098.65	101.42	126.40	28.90	105.30	106.26	112.77	109.63		

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HOUR	DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.		
1	1.70	0.00	103.95	100.87	101.05	099.80	29.90	0.00	102.64	101.98	40.30	0.00	099.54	099.54		
2	1.70	0.00	103.95	100.75	100.87	099.53	29.60	0.00	102.95	102.02	40.00	0.00	099.48	099.57		
3	1.70	0.00	103.78	100.72	100.69	099.37	34.80	0.00	102.83	102.02	40.00	0.00	099.46	099.42		
4	.20	0.00	103.78	001.49	100.56	099.29	34.50	0.00	102.80	101.99	40.10	0.00	099.48	099.56		
5	1.70	0.00	103.65	100.57	100.38	099.10	39.90	0.00	102.53	103.17	40.40	0.00	099.30	099.69		
6	1.70	0.00	103.75	100.66	100.27	098.94	44.60	0.00	102.65	102.38	40.70	0.00	099.30	099.53		
7	1.70	0.00	104.03	100.81	100.41	099.23	49.50	0.00	102.71	102.41	42.10	0.00	099.37	099.57		
8	1.70	0.00	104.50	101.45	100.68	099.96	50.90	0.00	102.74	102.45	40.80	0.00	099.52	099.92		
9	1.70	0.00	105.12	101.94	101.20	100.84	50.10	0.00	103.16	102.45	50.00	0.00	099.58	100.17		
10	1.70	0.00	105.64	102.73	101.76	101.62	50.10	0.00	104.01	102.53	50.50	0.00	099.49	099.99		
11	1.70	0.00	106.12	102.94	102.43	102.34	51.50	0.00	104.77	102.84	50.50	0.00	099.26	099.87		
12	1.70	0.00	106.51	103.59	102.61	102.55	42.60	0.00	104.28	102.79	51.00	0.00	099.43	099.79		
13	1.70	0.00	106.59	103.79	102.69	102.76	40.30	0.00	104.97	102.95	42.20	0.00	099.30	099.79		
14	1.70	0.00	106.67	103.97	102.69	102.92	35.80	0.00	104.34	103.04	34.90	0.00	099.07	100.21		
15	1.60	0.00	106.54	103.65	102.70	102.88	37.50	0.00	103.95	103.14	34.20	0.00	098.95	100.12		
16	1.60	0.00	106.67	103.68	102.85	102.91	35.00	0.00	103.72	103.14	34.70	0.00	098.82	100.15		
17	1.60	0.00	106.84	103.87	103.34	103.07	35.10	0.00	103.73	103.18	34.50	0.00	098.90	100.24		
18	1.70	0.00	107.16	103.37	103.46	103.02	34.90	0.00	103.91	102.94	34.40	0.00	098.77	100.16		
19	1.60	0.00	106.84	102.88	103.50	102.42	35.10	0.00	104.29	102.79	34.60	0.00	098.64	099.96		
20	1.60	0.00	106.02	102.38	103.02	101.96	40.60	0.00	103.86	102.48	39.60	0.00	098.57	099.76		
21	1.60	0.00	105.43	102.17	102.64	101.35	38.10	0.00	103.74	102.32	39.90	0.00	098.47	099.52		
22	1.60	0.00	105.08	101.75	102.17	100.93	34.40	0.00	103.53	103.11	39.70	0.00	098.51	099.68		
23	1.70	0.00	104.93	101.47	102.01	100.69	30.10	0.00	103.65	102.71	39.50	0.00	098.51	099.54		
24	1.60	0.00	105.07	101.25	101.66	100.47	31.60	0.00	103.53	102.43	29.80	0.00	098.80	099.58		
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT		
1	40.60	0.00	102.23	101.20	47.70	0.00	100.77	103.06	112.50	29.50	108.90	108.54	115.02	109.96		
2	40.60	0.00	102.23	101.22	39.90	0.00	100.80	102.94	114.90	29.50	108.92	108.39	114.87	109.52		
3	40.60	0.00	102.10	101.20	39.40	0.00	100.79	102.92	114.80	29.60	108.81	108.26	114.99	109.15		
4	41.30	0.00	102.12	101.17	39.30	0.00	100.80	102.96	117.40	29.50	108.83	108.01	115.05	108.92		
5	42.20	0.00	101.81	101.67	39.70	0.00	100.55	102.94	127.30	29.50	108.92	108.26	114.90	108.53		
6	40.40	0.00	101.85	101.28	39.00	0.00	100.31	102.97	129.60	28.10	108.72	108.41	115.17	108.13		
7	41.90	0.00	101.91	101.60	42.10	0.00	100.48	103.32	138.80	.10	109.12	108.26	115.25	107.74		
8	41.90	0.00	101.95	101.98	42.20	0.00	100.33	103.72	130.10	.10	109.28	108.49	111.24	107.55		
9	48.50	0.00	101.68	102.30	42.40	0.00	100.76	103.92	131.90	0.00	109.25	109.31	110.39	107.44		
10	49.20	0.00	101.90	102.18	48.90	0.00	100.81	104.48	131.00	0.00	109.33	108.77	110.09	107.65		
11	51.20	0.00	102.03	102.35	50.40	0.00	100.88	104.33	117.70	0.00	108.95	108.65	109.87	107.50		
12	48.80	0.00	101.66	102.11	49.50	0.00	100.79	104.06	116.10	0.00	109.42	108.70	109.75	107.41		
13	48.60	0.00	101.71	102.29	49.50	0.00	100.70	103.94	118.70	0.00	109.32	109.15	109.54	107.44		
14	48.70	0.00	102.28	102.28	49.50	0.00	100.68	103.69	116.40	0.00	109.64	109.44	109.44	107.61		
15	42.50	0.00	102.33	102.82	49.20	0.00	100.87	103.81	118.80	0.00	109.39	109.48	109.41	107.81		
16	33.30	0.00	102.39	102.59	37.10	0.00	100.36	103.61	124.90	0.00	109.70	109.48	109.26	107.95		
17	34.90	0.00	102.20	102.56	31.50	0.00	099.93	103.42	118.80	0.00	109.11	109.04	108.98	107.88		
18	32.00	0.00	102.26	102.04	32.10	0.00	099.84	103.38	117.90	0.00	109.07	109.08	108.70	107.73		
19	32.10	0.00	102.07	101.61	30.90	0.00	099.48	103.50	152.30	0.00	109.07	108.83	108.99	107.61		
20	39.90	0.00	102.28	101.61	38.50	0.00	099.34	103.63	159.80	0.00	108.98	109.10	108.83	107.75		
21	40.00	0.00	101.97	101.46	41.40	0.00	100.03	103.38	160.40	0.00	108.72	109.10	108.71	107.51		
22	41.50	0.00	102.09	101.79	40.60	0.00	100.23	103.23	161.30	0.00	108.53	108.65	108.55	107.05		
23	39.10	0.00	102.18	101.35	39.50	0.00	100.28	103.51	142.00	0.00	108.30	108.44	108.46	106.71		
24	31.00	0.00	101.97	101.10	30.50	0.00	099.45	102.92	122.90	0.00	107.99	107.97	108.24	106.71		

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	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR:	TOTAL DISCH. KCFS	SPIILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPIILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPIILL KCFS	GAS FB	%SAT. TAILW.
1	1.70	0.00	104.28	101.78	101.81	100.53	37.50	0.00	999.87	100.69	39.40	0.00	999.83	999.79
2	1.70	0.00	104.46	101.62	101.53	100.27	34.80	0.00	999.76	100.69	37.20	0.00	999.97	999.65
3	1.70	0.00	104.47	101.48	101.39	100.00	34.40	0.00	999.87	100.67	35.40	0.00	999.95	999.77
4	1.70	0.00	104.57	101.30	101.13	999.78	30.30	0.00	100.26	100.52	30.00	0.00	999.76	999.75
5	1.70	0.00	104.65	101.14	100.87	999.50	30.00	0.00	100.57	100.97	29.90	0.00	999.67	999.65
6	1.70	0.00	104.60	101.06	100.67	999.31	30.10	0.00	100.81	101.03	30.00	0.00	999.68	999.63
7	1.70	0.00	104.78	101.04	100.56	999.18	29.40	0.00	100.93	100.87	30.00	0.00	999.48	999.61
8	1.70	0.00	104.84	101.29	100.48	999.42	29.80	0.00	100.87	100.83	30.90	0.00	999.48	999.73
9	1.70	0.00	104.93	101.26	100.48	999.68	40.60	0.00	101.10	100.80	40.40	0.00	999.36	999.83
10	1.70	0.00	104.91	101.38	100.54	999.88	41.00	0.00	101.21	100.80	41.10	0.00	999.64	999.96
11	1.70	0.00	104.97	101.52	100.71	100.28	41.50	0.00	100.87	100.84	40.90	0.00	999.69	999.80
12	1.70	0.00	105.26	101.79	100.98	101.08	40.90	0.00	101.60	101.00	40.10	0.00	999.71	999.91
13	1.70	0.00	105.69	102.18	101.34	101.60	40.70	0.00	102.53	101.17	40.30	0.00	999.69	999.81
14	1.70	0.00	105.99	102.33	101.68	101.79	40.60	0.00	102.57	101.77	45.80	0.00	999.75	100.12
15	1.70	0.00	106.16	?UNDEF	101.95	102.26	46.70	0.00	102.74	101.78	48.70	0.00	999.75	100.28
16	1.70	0.00	106.17	102.57	102.28	102.80	47.10	0.00	102.86	101.78	47.50	0.00	999.64	100.44
17	1.70	0.00	106.19	103.06	102.27	102.52	48.10	0.00	103.03	101.87	47.90	0.00	999.84	100.36
18	1.70	0.00	105.67	102.72	102.24	102.32	47.00	0.00	103.12	101.91	47.50	0.00	999.88	100.16
19	1.70	0.00	106.19	102.29	102.09	101.99	40.90	0.00	102.84	101.80	40.70	0.00	999.79	100.04
20	1.70	0.00	104.99	102.06	101.79	101.67	42.00	0.00	103.03	101.95	40.60	0.00	999.80	999.77
21	1.70	0.00	104.55	101.76	101.70	100.97	38.50	0.00	102.88	101.80	40.50	0.00	999.77	999.75
22	1.70	0.00	104.31	101.48	101.41	100.55	35.30	0.00	102.77	102.34	41.00	0.00	999.77	999.63
23	1.70	0.00	104.05	101.22	101.25	100.20	34.50	0.00	102.76	102.08	40.30	0.00	999.66	999.68
24	1.70	0.00	104.07	100.99	101.11	999.95	34.40	0.00	102.65	101.98	40.30	0.00	999.70	999.69
	LOWER MONUMENTAL			ICE HARBOR			MCNARY			PASCO				
HOUR:	TOTAL DISCH KCFS	SPIILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPIILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPIILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	40.80	0.00	101.25	100.44	45.60	0.00	103.19	103.70	101.50	0.00	109.16	108.38	108.51	111.73
2	40.40	0.00	101.13	100.36	39.60	0.00	103.16	103.57	101.20	0.00	109.00	108.07	108.53	111.61
3	40.50	0.00	101.37	100.45	38.90	0.00	103.10	103.54	103.40	0.00	109.01	108.57	108.51	111.32
4	30.60	0.00	101.15	100.28	29.90	0.00	101.46	103.32	99.20	0.00	108.68	108.14	108.41	110.96
5	30.10	0.00	101.14	100.36	29.30	0.00	100.76	103.30	102.60	0.00	108.10	107.88	108.34	110.73
6	30.20	0.00	101.07	100.32	29.70	0.00	100.17	103.27	100.70	0.00	107.88	107.79	108.30	110.51
7	30.20	0.00	101.06	100.43	28.30	0.00	999.34	103.24	102.50	0.00	108.27	108.16	108.14	110.34
8	31.20	0.00	101.19	100.68	28.30	0.00	100.00	103.46	109.10	0.00	107.97	108.25	108.09	110.17
9	40.60	0.00	101.15	100.95	27.10	0.00	999.89	104.49	108.30	0.00	107.55	108.37	108.01	110.02
10	41.20	0.00	101.27	101.20	38.60	0.00	999.88	105.17	124.60	0.00	107.68	108.46	108.32	110.17
11	42.20	0.00	101.45	102.14	38.80	0.00	999.81	104.84	121.00	0.00	108.10	108.59	108.59	110.14
12	42.20	0.00	101.58	102.08	39.40	0.00	100.16	104.89	118.50	0.00	108.03	108.90	108.49	110.43
13	40.60	0.00	101.72	102.11	38.90	0.00	999.76	104.91	130.70	0.00	108.06	108.93	108.67	110.42
14	40.60	0.00	101.59	102.15	41.90	0.00	999.92	105.16	115.30	0.00	108.63	108.57	108.74	110.90
15	45.40	0.00	101.76	101.91	43.70	0.00	100.44	104.82	112.70	0.00	109.46	108.06	108.90	111.07
16	48.70	0.00	101.89	102.23	42.40	0.00	100.48	105.12	116.50	0.00	109.72	108.38	109.05	111.35
17	49.00	0.00	101.97	102.04	47.60	0.00	100.56	105.17	114.50	0.00	110.09	108.87	109.28	111.44
18	48.50	0.00	101.92	101.98	48.80	0.00	101.03	104.60	113.90	70	109.99	108.55	109.34	111.63
19	49.10	0.00	102.10	101.74	48.00	0.00	101.03	104.14	116.30	29.50	109.75	108.69	111.27	111.66
20	48.90	0.00	102.19	101.46	48.00	0.00	101.05	103.64	114.70	29.50	109.68	108.61	114.20	111.55
21	49.10	0.00	102.05	101.27	47.90	0.00	100.77	103.36	114.40	29.50	109.65	108.82	114.42	111.30
22	48.10	0.00	101.87	101.19	47.90	0.00	100.76	103.20	116.10	29.50	109.62	108.81	114.90	111.13
23	47.50	0.00	102.08	101.24	49.50	0.00	100.71	103.13	111.10	29.50	109.62	108.69	115.05	110.65
24	40.40	0.00	102.07	101.20	48.90	0.00	100.68	103.38	109.70	29.50	109.43	108.36	114.89	110.65

09 JUN 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

09 JUN 2001

HOUR	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.70	0.00	104.07	102.03	102.18	101.15	35.20	0.00	100.14	099.65	33.20	0.00	102.25	101.28
2	1.70	0.00	104.04	101.99	102.09	100.87	33.70	0.00	101.41	099.53	30.10	0.00	101.87	101.25
3	1.70	0.00	104.03	101.85	101.73	100.57	34.30	0.00	099.46	099.34	31.50	0.00	101.55	101.28
4	1.70	0.00	103.90	101.82	101.69	100.41	33.80	0.00	099.41	099.27	29.90	0.00	101.51	101.10
5	1.70	0.00	103.61	101.77	101.25	100.07	34.20	0.00	099.22	099.61	30.30	0.00	101.22	100.93
6	1.70	0.00	103.74	101.64	101.09	099.97	33.90	0.00	099.19	099.72	30.10	0.00	101.21	100.91
7	1.70	0.00	104.09	101.63	101.05	100.18	34.00	0.00	099.14	099.66	30.60	0.00	101.02	100.98
8	1.70	0.00	104.60	101.76	101.27	100.55	45.40	0.00	099.50	099.74	41.80	0.00	100.83	101.30
9	1.70	0.00	105.01	102.04	101.67	101.24	48.00	0.00	099.76	099.88	46.80	0.00	100.63	100.75
10	1.70	0.00	105.86	102.46	101.92	102.17	48.80	0.00	099.70	099.95	50.30	0.00	100.59	100.68
11	1.70	0.00	107.89	102.96	102.31	102.41	48.20	0.00	100.19	100.03	50.60	0.00	100.46	100.66
12	1.70	0.00	107.24	103.42	102.44	102.68	48.60	0.00	100.07	100.32	51.90	0.00	100.43	100.70
13	1.70	0.00	107.01	103.87	102.75	103.11	50.10	0.00	100.86	100.46	51.90	0.00	100.31	100.70
14	1.70	0.00	000.00	104.21	103.21	103.83	51.40	0.00	101.02	100.47	53.70	0.00	100.24	100.87
15	1.70	0.00	107.39	100.71	103.41	104.16	50.60	0.00	101.20	100.52	51.90	0.00	100.11	100.74
16	1.70	0.00	107.14	104.76	103.39	104.26	50.70	0.00	101.36	100.51	51.90	0.00	100.00	100.60
17	1.70	0.00	106.86	104.47	103.51	103.84	50.70	0.00	101.54	100.59	51.90	0.00	100.05	100.67
18	1.70	0.00	106.35	104.08	103.53	103.64	50.70	0.00	101.43	100.63	52.10	0.00	100.09	100.67
19	1.70	0.00	106.86	103.64	103.24	103.44	53.60	0.00	101.17	100.59	51.80	0.00	100.05	100.47
20	1.70	0.00	105.37	102.92	102.91	102.76	56.70	0.00	101.15	100.63	53.70	0.00	099.93	100.43
21	1.70	0.00	104.78	102.47	102.70	102.08	53.90	0.00	101.27	101.01	55.50	0.00	099.74	100.12
22	1.70	0.00	104.51	102.18	102.37	101.51	54.10	0.00	101.63	101.02	55.90	0.00	100.00	099.81
23	1.70	0.00	104.28	101.95	102.17	125.38	54.00	0.00	100.84	101.01	40.00	0.00	100.00	099.85
24	1.70	0.00	104.28	101.89	101.99	100.77	42.10	0.00	100.15	100.85	39.40	0.00	099.95	099.79
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO	
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	29.90	0.00	102.24	100.50	28.50	0.00	101.34	103.51	147.90	29.60	113.29	110.70	114.10	113.72
2	30.60	0.00	103.03	100.75	27.20	0.00	100.63	103.47	146.90	29.40	113.01	110.46	113.97	113.44
3	29.30	0.00	103.80	100.44	26.90	0.00	100.92	103.46	147.30	29.40	112.30	109.70	113.92	113.41
4	29.20	0.00	102.57	100.25	26.80	0.00	100.47	103.31	147.30	29.40	111.14	109.96	113.83	113.24
5	29.20	0.00	101.17	100.24	28.30	0.00	100.43	103.40	147.30	29.40	110.83	110.05	113.76	113.08
6	31.30	0.00	101.25	100.19	26.80	0.00	100.79	103.36	148.70	29.40	110.58	109.57	113.80	112.87
7	31.10	0.00	100.85	100.52	27.40	0.00	100.83	103.41	158.40	0.00	109.90	109.60	113.06	112.90
8	34.90	0.00	101.45	100.88	31.40	0.00	100.65	103.87	161.20	0.00	109.87	109.66	109.67	112.99
9	41.70	0.00	100.63	000.00	35.10	0.00	100.17	104.44	162.00	0.00	111.26	109.75	108.97	113.06
10	45.30	0.00	100.55	100.93	38.30	0.00	100.29	104.73	161.80	0.00	111.10	109.78	108.80	113.19
11	48.50	0.00	101.25	101.00	46.80	0.00	100.52	104.81	161.50	0.00	110.55	109.61	108.66	113.16
12	52.30	0.00	100.44	101.02	47.40	0.00	100.07	104.82	161.40	0.00	110.54	109.18	108.53	113.31
13	52.40	0.00	101.09	100.90	51.80	0.00	100.24	104.95	161.10	0.00	110.28	109.61	108.44	113.47
14	53.30	0.00	099.91	100.75	52.40	0.00	100.24	105.16	161.90	0.00	110.11	109.52	108.35	113.46
15	53.30	0.00	100.32	100.68	54.00	0.00	100.79	104.56	161.70	0.00	109.97	000.00	108.35	113.21
16	55.40	0.00	100.75	100.68	52.60	0.00	101.05	104.72	161.70	0.00	109.86	108.78	108.37	112.99
17	55.40	0.00	100.98	100.86	52.60	0.00	101.08	104.76	161.30	0.00	109.88	108.81	108.44	112.91
18	58.50	0.00	100.97	100.78	54.70	0.00	101.25	104.65	160.70	0.00	109.81	108.95	108.48	112.84
19	59.00	0.00	101.02	100.76	56.10	0.00	102.20	104.34	160.50	0.00	109.81	109.69	108.38	112.54
20	60.00	0.00	101.01	100.44	55.20	0.00	102.95	104.06	151.20	0.00	109.69	109.53	108.33	112.49
21	60.10	0.00	101.25	100.36	55.10	0.00	103.28	103.71	120.50	0.00	109.09	109.34	108.41	112.32
22	60.20	0.00	100.98	100.33	56.50	0.00	103.19	103.66	103.20	0.00	108.76	109.26	108.23	112.03
23	49.00	0.00	101.11	100.31	55.20	0.00	103.00	103.55	100.50	0.00	109.20	108.76	108.23	112.00
24	40.80	0.00	101.13	100.27	55.90	0.00	103.10	103.66	102.10	0.00	109.06	108.50	108.62	112.00

08 JUN 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

08 JUN 2001

	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.70	0.00	104.17	102.34	101.79	100.86	31.60	0.00	102.10	097.81	31.70	0.00	104.53	100.78
2	1.30	0.00	104.47	102.26	101.72	100.65	31.80	0.00	100.39	097.87	31.80	0.00	104.32	100.80
3	1.10	0.00	104.62	102.28	101.56	100.36	31.10	0.00	099.60	097.85	31.90	0.00	104.08	100.83
4	1.50	0.00	104.42	102.15	101.13	100.26	31.00	0.00	100.58	098.03	32.00	0.00	103.88	100.88
5	1.70	0.00	105.90	102.06	101.09	100.01	31.50	0.00	100.93	098.09	32.30	0.00	103.58	100.87
6	1.70	0.00	106.16	101.88	101.18	099.99	39.90	0.00	101.20	098.12	35.90	0.00	103.36	101.02
7	1.70	0.00	105.13	101.69	101.28	100.15	50.20	0.00	100.51	098.37	41.10	0.00	103.09	101.17
8	1.70	0.00	104.95	101.99	101.45	100.74	61.40	0.00	100.04	098.79	60.90	0.00	103.13	101.37
9	1.70	0.00	105.03	102.28	101.88	101.47	62.10	0.00	100.07	098.70	60.70	0.00	102.99	101.22
10	1.70	0.00	105.69	102.77	102.26	102.17	61.80	0.00	100.08	098.76	61.30	0.00	102.75	101.52
11	1.70	0.00	106.16	103.23	102.70	102.91	61.90	0.00	100.22	099.02	61.70	0.00	103.86	101.82
12	1.70	0.00	106.52	103.77	103.19	103.52	61.90	0.00	100.26	099.07	62.60	0.00	104.03	101.89
13	1.70	0.00	106.91	104.05	103.56	103.82	61.80	0.00	100.84	099.35	60.30	0.00	104.25	101.93
14	1.70	0.00	107.00	104.41	103.93	104.32	61.30	0.00	100.47	099.39	60.10	0.00	104.31	101.99
15	1.70	0.00	107.18	104.92	104.36	104.94	42.50	0.00	101.09	099.76	60.10	0.00	104.23	102.04
16	1.70	0.00	107.46	104.96	104.72	104.98	41.80	0.00	102.07	099.64	59.90	0.00	104.27	102.06
17	1.70	0.00	107.14	104.83	104.67	104.26	41.30	0.00	101.34	099.70	52.50	0.00	104.18	102.14
18	1.70	0.00	106.46	104.52	104.33	103.67	41.80	0.00	101.38	099.65	41.60	0.00	103.90	102.21
19	1.70	0.00	107.14	104.27	104.10	103.57	42.10	0.00	101.71	099.54	40.30	0.00	103.49	102.12
20	1.70	0.00	105.35	103.94	103.77	103.28	40.50	0.00	101.91	099.70	41.40	0.00	103.08	101.85
21	1.70	0.00	105.17	103.35	103.56	102.64	42.60	0.00	102.33	100.31	39.90	0.00	102.83	101.75
22	1.70	0.00	104.48	102.90	102.97	101.88	41.80	0.00	101.47	099.99	40.20	0.00	102.51	101.55
23	1.70	0.00	104.16	102.59	102.83	101.75	41.30	0.00	101.76	099.73	40.40	0.00	103.14	101.54
24	1.70	0.00	104.16	102.31	102.57	101.46	41.00	0.00	101.65	099.60	39.80	0.00	102.67	101.44
	LOWER MONUMENTAL			ICE HARBOR			MCNARY			PASCO				
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	30.00	0.00	106.79	100.56	29.70	0.00	*****	103.33	129.10	0.00	112.18	109.23	106.49	112.31
2	31.60	0.00	105.49	100.53	31.20	0.00	101.43	103.33	136.40	0.00	111.36	110.28	106.57	112.01
3	27.80	0.00	105.13	100.68	28.40	0.00	101.29	103.47	138.10	0.00	108.02	109.63	106.28	111.73
4	27.60	0.00	105.20	100.60	27.60	0.00	100.44	103.40	141.80	0.00	107.09	108.76	106.17	111.29
5	28.30	0.00	105.02	100.44	29.20	0.00	099.40	103.56	150.70	0.00	111.04	106.92	105.91	111.08
6	34.60	0.00	104.92	100.73	27.90	0.00	100.19	103.40	155.90	0.00	110.19	106.33	105.70	110.64
7	37.30	0.00	103.86	103.17	28.60	0.00	100.37	103.59	160.40	0.00	109.94	107.15	105.85	110.62
8	54.50	0.00	102.75	101.44	48.30	0.00	101.36	104.20	162.50	0.00	108.49	108.41	106.07	110.90
9	53.40	0.00	102.78	101.47	57.50	0.00	102.69	104.25	162.50	0.00	109.16	107.77	106.47	111.47
10	58.90	0.00	101.49	101.90	62.80	0.00	103.26	104.75	162.50	0.00	111.07	107.18	106.82	112.28
11	61.90	0.00	101.24	102.02	62.00	0.00	104.51	104.95	162.50	0.00	111.20	107.23	106.91	112.87
12	67.40	0.00	101.96	101.96	68.60	0.00	103.74	104.87	162.20	0.00	106.45	107.02	107.03	113.58
13	67.40	0.00	102.44	102.20	69.20	0.00	103.65	104.66	162.00	0.00	104.22	110.50	107.23	113.98
14	67.10	0.00	105.04	101.94	67.90	0.00	103.70	104.85	161.90	0.00	107.81	110.98	107.68	114.16
15	67.00	0.00	102.65	101.92	67.40	0.00	104.13	105.12	161.50	0.00	112.39	110.47	108.03	114.34
16	66.90	0.00	102.87	102.38	66.20	0.00	105.64	105.20	161.60	0.00	113.48	110.99	108.09	114.58
17	67.20	0.00	102.76	102.19	66.20	0.00	106.57	105.18	161.60	0.00	114.30	111.17	108.17	114.82
18	68.00	0.00	101.73	102.13	65.80	0.00	107.02	105.29	158.80	10	113.64	112.58	108.11	115.18
19	60.60	0.00	101.39	102.19	59.00	0.00	107.87	104.98	165.70	29.00	111.68	112.86	110.95	115.33
20	42.60	0.00	103.36	101.83	58.80	0.00	107.84	104.75	188.30	29.30	108.33	112.73	112.39	115.18
21	41.30	0.00	103.02	101.52	43.30	0.00	106.08	104.36	191.20	29.30	104.99	112.61	113.47	115.05
22	41.80	0.00	102.10	101.28	42.20	0.00	103.79	104.05	190.20	29.90	108.91	112.51	113.77	114.66
23	41.50	0.00	101.32	101.14	38.40	0.00	102.07	103.81	150.60	30.00	113.20	112.24	113.75	114.34
24	42.10	0.00	101.11	100.76	38.10	0.00	101.79	103.72	146.00	30.00	113.72	110.99	113.98	114.34

07 JUN 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

07 JUN 2001

	DWORSHAK			:	STREAMFLOW			:	LOWER GRANITE			:	LITTLE GOOSE				
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	:	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.70	0.00	104.08	:	101.70	101.97	101.02	:	31.10	0.00	098.37	097.28	:	27.40	0.00	098.25	099.00
2	1.70	0.00	104.05	:	101.58	101.75	100.76	:	29.30	0.00	098.11	097.16	:	28.70	0.00	098.27	098.87
3	1.70	0.00	104.05	:	101.56	101.48	100.50	:	29.20	0.00	097.83	097.18	:	27.70	0.00	098.28	099.03
4	1.70	0.00	104.20	:	101.43	101.36	100.19	:	29.20	0.00	097.74	097.18	:	26.50	0.00	098.28	098.90
5	1.70	0.00	104.19	:	101.47	101.07	100.09	:	31.80	0.00	097.86	097.16	:	26.30	0.00	098.25	098.87
6	1.70	0.00	104.15	:	101.41	100.99	099.92	:	35.00	0.00	099.20	097.13	:	26.40	0.00	098.07	098.72
7	1.70	0.00	104.55	:	101.40	100.93	100.03	:	44.10	0.00	099.41	097.14	:	27.00	0.00	098.37	098.83
8	1.70	0.00	104.84	:	101.30	101.20	100.23	:	44.60	0.00	099.00	097.24	:	44.20	0.00	098.20	098.95
9	1.70	0.00	105.21	:	101.44	101.29	100.37	:	54.90	0.00	098.58	097.54	:	53.90	0.00	098.19	099.08
10	1.70	0.00	105.54	:	101.79	101.69	100.98	:	56.80	0.00	098.60	097.70	:	54.90	0.00	098.68	099.16
11	1.70	0.00	105.54	:	102.21	101.82	101.39	:	55.70	0.00	099.30	097.68	:	54.60	0.00	099.12	099.33
12	1.70	0.00	105.70	:	102.55	101.88	101.93	:	55.80	0.00	099.83	097.70	:	54.40	0.00	099.41	099.49
13	1.70	0.00	106.03	:	102.74	102.16	102.58	:	55.50	0.00	099.38	097.77	:	54.70	0.00	099.95	099.84
14	1.70	0.00	106.93	:	103.24	102.74	103.30	:	45.20	0.00	099.83	097.99	:	56.30	0.00	101.08	100.13
15	1.70	0.00	107.30	:	103.73	103.41	104.20	:	45.40	0.00	099.92	098.05	:	56.30	0.00	102.46	100.35
16	1.70	0.00	107.36	:	104.19	103.77	104.66	:	44.60	0.00	100.27	098.09	:	56.00	0.00	103.52	100.67
17	1.70	0.00	107.31	:	104.39	103.96	104.89	:	44.40	0.00	101.40	098.18	:	46.30	0.00	104.50	100.72
18	1.70	0.00	107.07	:	104.30	103.92	104.81	:	42.20	0.00	100.38	098.08	:	40.40	0.00	104.97	100.65
19	1.70	0.00	107.31	:	104.10	103.65	104.41	:	40.40	0.00	101.87	098.11	:	40.10	0.00	104.98	100.55
20	1.70	0.00	105.80	:	103.71	103.27	103.66	:	40.50	0.00	102.31	098.03	:	40.40	0.00	105.21	100.51
21	1.70	0.00	104.96	:	103.25	102.67	102.66	:	41.40	0.00	101.71	097.84	:	40.70	0.00	105.35	100.40
22	1.70	0.00	104.61	:	102.83	102.25	102.16	:	42.30	0.00	101.22	097.86	:	40.50	0.00	105.19	100.23
23	1.70	0.00	104.43	:	102.61	102.12	101.60	:	38.00	0.00	101.49	097.92	:	40.70	0.00	105.28	100.31
24	1.70	0.00	104.17	:	102.45	101.87	101.26	:	32.40	0.00	101.64	097.91	:	31.90	0.00	105.01	100.56

	LOWER MONUMENTAL			:	ICE HARBOR			:	MCNARY			:	PASCO				
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT. TAILW.	:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT. TAILW.	:	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB %SAT. TAILW.	:	GAS % SAT			
1	40.00	0.00	100.31 099.19	:	38.70	0.00	102.31 102.32	:	106.40	29.30	106.52	105.40 113.11	:	110.44			
2	30.30	0.00	100.19 099.03	:	28.40	0.00	101.36 102.41	:	107.80	29.30	104.98	104.62 113.09	:	110.30			
3	28.20	0.00	100.08 099.35	:	27.60	0.00	100.89 102.49	:	107.90	29.30	106.63	105.04 113.39	:	110.20			
4	26.90	0.00	100.09 099.07	:	28.90	0.00	100.74 102.33	:	117.20	29.30	106.72	104.91 113.25	:	110.22			
5	26.60	0.00	100.21 098.87	:	26.80	0.00	100.05 102.30	:	124.30	29.30	106.47	104.66 112.99	:	110.04			
6	26.70	0.00	100.01 098.95	:	27.00	0.00	099.62 102.29	:	135.20	29.30	106.43	104.34 112.80	:	109.80			
7	28.30	0.00	100.05 099.11	:	27.70	0.00	099.05 102.37	:	133.70	0.00	106.13	104.72 111.83	:	109.72			
8	46.00	0.00	100.04 099.68	:	45.50	0.00	099.30 103.18	:	149.30	0.00	106.47	104.93 107.18	:	109.69			
9	54.30	0.00	100.20 099.80	:	55.70	0.00	101.99 103.24	:	158.70	0.00	106.29	105.51 106.08	:	109.85			
10	54.50	0.00	100.79 100.03	:	55.30	0.00	102.36 104.08	:	152.50	0.00	107.00	105.76 105.71	:	110.16			
11	54.30	0.00	101.48 100.58	:	56.90	0.00	103.79 103.99	:	139.20	0.00	107.30	108.74 106.01	:	110.64			
12	56.00	0.00	100.31 101.46	:	56.80	0.00	104.38 104.56	:	148.80	0.00	107.74	109.48 106.07	:	110.93			
13	55.80	0.00	100.23 101.12	:	52.40	0.00	104.24 104.45	:	139.20	0.00	108.21	107.65 106.23	:	111.14			
14	55.30	0.00	100.24 101.35	:	49.70	0.00	104.83 104.85	:	138.10	0.00	109.43	108.36 106.15	:	111.60			
15	55.50	0.00	100.35 101.51	:	50.20	0.00	106.52 105.16	:	139.10	0.00	111.41	107.15 106.11	:	112.05			
16	56.50	0.00	100.55 102.12	:	49.40	0.00	105.25 105.03	:	139.50	0.00	111.32	106.56 106.04	:	112.42			
17	54.90	0.00	105.53 101.51	:	49.30	0.00	104.67 105.13	:	137.20	0.00	113.28	106.21 105.97	:	112.75			
18	54.90	0.00	103.50 101.32	:	49.20	0.00	104.06 104.92	:	137.60	0.00	114.27	105.79 105.92	:	113.10			
19	55.90	0.00	106.34 100.94	:	49.30	0.00	103.71 104.52	:	136.00	0.00	116.08	107.60 105.91	:	113.12			
20	43.90	0.00	105.20 100.44	:	49.20	0.00	103.55 104.15	:	136.00	0.00	116.44	107.27 105.99	:	113.12			
21	41.00	0.00	107.00 100.43	:	49.70	0.00	102.76 103.78	:	137.60	0.00	116.22	107.59 106.03	:	113.16			
22	41.50	0.00	108.31 100.52	:	42.20	0.00	102.13 103.50	:	138.20	0.00	114.63	108.23 106.00	:	112.90			
23	39.30	0.00	108.21 100.77	:	40.50	0.00	102.69 103.25	:	130.80	0.00	114.10	107.85 106.14	:	112.63			
24	30.40	0.00	107.71 100.51	:	30.50	0.00	101.90 103.13	:	126.10	0.00	113.89	109.09 106.35	:	112.63			

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WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

06 JUN 2001

	DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	
1	1.70	0.00	104.64	100.96	101.27	100.04	41.20	0.00	998.51	997.93	34.40	0.00	998.33	999.13	
2	1.70	0.00	104.34	100.81	101.26	999.87	39.50	0.00	998.27	997.89	35.90	0.00	998.32	999.09	
3	1.70	0.00	104.28	100.74	101.09	999.84	37.20	0.00	998.07	997.96	34.30	0.00	998.26	999.03	
4	1.70	0.00	104.48	100.70	100.96	999.65	35.10	0.00	997.91	997.89	35.10	0.00	998.10	998.93	
5	1.70	0.00	104.29	100.51	100.78	999.59	33.10	0.00	997.83	997.69	33.30	0.00	998.04	998.93	
6	1.70	0.00	104.37	100.50	100.76	999.49	34.10	0.00	997.81	997.65	36.10	0.00	998.01	998.72	
7	1.70	0.00	104.59	100.54	100.66	999.76	34.70	0.00	997.77	997.57	35.00	0.00	997.95	998.84	
8	1.70	0.00	104.97	100.83	100.97	100.16	44.00	0.00	997.87	997.60	44.90	0.00	997.95	999.04	
9	1.70	0.00	105.36	101.24	101.17	100.91	45.40	0.00	998.14	997.69	44.70	0.00	998.04	999.07	
10	1.70	0.00	105.93	101.93	101.66	101.71	45.50	0.00	998.26	997.75	44.70	0.00	998.00	999.06	
11	1.70	0.00	106.46	102.34	102.36	102.69	47.30	0.00	998.56	997.85	44.90	0.00	997.99	999.15	
12	1.70	0.00	107.16	102.77	102.98	103.50	45.60	0.00	999.25	998.04	44.90	0.00	997.98	999.18	
13	1.70	0.00	107.87	103.37	103.29	104.09	46.50	0.00	998.85	997.91	46.40	0.00	998.04	999.24	
14	1.70	0.00	107.91	103.67	103.59	104.50	43.20	0.00	998.85	997.77	44.80	0.00	998.25	999.28	
15	1.70	0.00	107.80	103.83	103.95	104.91	40.60	0.00	999.60	997.84	43.30	0.00	998.13	999.33	
16	1.70	0.00	107.61	103.98	104.07	105.07	40.50	0.00	100.05	997.90	41.20	0.00	998.20	999.39	
17	1.70	0.00	107.24	104.05	104.33	105.43	41.00	0.00	999.41	997.92	40.50	0.00	998.23	999.40	
18	1.70	0.00	106.97	103.76	104.21	105.47	49.60	0.00	100.36	997.96	44.80	0.00	998.29	999.29	
19	1.70	0.00	107.24	103.49	103.91	104.62	50.80	0.00	999.56	997.94	49.90	0.00	998.26	999.29	
20	1.70	0.00	105.62	103.17	103.49	103.71	48.60	0.00	998.37	997.83	50.00	0.00	998.26	999.17	
21	1.70	0.00	104.75	102.79	103.06	103.01	48.30	0.00	998.19	997.81	50.00	0.00	998.20	999.01	
22	1.70	0.00	104.29	102.43	102.67	102.42	40.60	0.00	998.55	997.58	49.70	0.00	998.28	998.92	
23	1.70	0.00	104.12	102.12	102.35	101.83	30.90	0.00	997.83	997.33	50.70	0.00	998.27	998.92	
24	1.70	0.00	104.07	101.83	102.20	101.42	29.80	0.00	997.83	997.29	36.10	0.00	998.24	998.88	
	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT	
1	34.30	0.00	101.00	999.91	30.40	0.00	100.66	103.06	111.30	0.00	103.03	102.91	103.48	106.49	
2	34.40	0.00	100.83	999.72	31.90	0.00	100.89	102.86	110.10	0.00	102.96	102.87	103.41	106.13	
3	34.30	0.00	100.73	999.60	30.60	0.00	100.53	102.80	110.40	0.00	102.91	103.22	103.49	106.08	
4	35.50	0.00	100.55	999.55	33.60	0.00	100.32	102.74	111.00	0.00	102.75	102.91	103.43	105.81	
5	33.30	0.00	100.39	999.52	33.20	0.00	999.89	102.69	125.50	0.00	102.72	102.68	103.50	105.90	
6	34.30	0.00	100.33	999.52	34.80	0.00	999.42	102.66	136.10	0.00	102.64	102.63	103.30	105.80	
7	35.00	0.00	100.31	999.60	33.90	0.00	999.40	102.66	142.00	0.00	102.57	102.85	103.28	105.71	
8	47.60	0.00	100.27	999.71	44.80	0.00	999.34	103.30	164.40	0.00	102.56	102.85	103.45	105.85	
9	48.70	0.00	100.25	100.15	47.60	0.00	999.63	103.28	162.00	0.00	102.55	103.26	103.60	106.21	
10	48.50	0.00	100.25	100.33	48.80	0.00	999.87	103.71	159.80	0.00	102.60	103.51	103.77	106.87	
11	51.50	0.00	100.27	100.70	47.90	0.00	100.00	103.53	156.70	0.00	102.73	103.35	103.98	107.51	
12	50.00	0.00	100.25	100.78	48.00	0.00	100.56	103.95	151.00	0.00	102.76	103.25	000.00	108.09	
13	50.30	0.00	100.29	100.85	47.80	0.00	101.26	103.97	149.80	0.00	104.94	103.33	000.00	108.91	
14	49.60	0.00	100.31	101.01	49.30	0.00	101.46	104.23	148.80	0.00	105.22	104.05	104.57	109.64	
15	45.40	0.00	100.24	101.14	47.60	0.00	101.87	104.11	138.20	0.00	105.57	103.94	104.64	110.10	
16	42.20	0.00	100.11	101.17	43.60	0.00	102.36	104.06	129.10	0.00	106.64	103.72	104.55	110.42	
17	42.80	0.00	100.17	101.10	44.10	0.00	101.72	104.16	127.40	0.00	106.96	103.64	104.46	110.57	
18	43.60	0.00	100.32	101.12	43.50	0.00	101.47	104.29	126.90	0.00	107.11	103.42	104.25	110.61	
19	50.70	0.00	100.17	100.51	50.70	0.00	101.59	103.75	133.60	29.30	107.15	103.55	107.48	110.76	
20	49.60	0.00	100.17	999.91	51.20	0.00	101.47	103.26	132.50	29.30	107.11	103.69	110.89	110.89	
21	49.60	0.00	100.40	999.57	51.30	0.00	101.58	102.94	132.80	29.30	107.30	103.27	112.35	110.86	
22	49.40	0.00	100.77	999.35	52.30	0.00	101.84	102.61	133.80	29.30	104.96	102.96	112.57	110.77	
23	49.10	0.00	100.49	999.28	52.40	0.00	101.94	102.48	108.30	29.30	105.48	103.86	113.05	110.77	
24	39.60	0.00	100.47	999.11	39.90	0.00	102.56	102.28	107.80	29.30	107.17	104.87	113.40	110.77	

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WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

05 JUN 2001

	DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR :	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.		
1 :	1.70	0.00	104.49	100.83	101.21	099.45	39.80	0.00	101.15	100.55	35.50	0.00	099.99	100.23		
2 :	1.70	0.00	104.33	100.72	101.20	099.32	39.80	0.00	101.12	100.46	34.00	0.00	100.03	100.24		
3 :	1.70	0.00	104.29	100.67	101.19	099.11	39.70	0.00	100.96	100.40	32.40	0.00	099.88	100.13		
4 :	1.70	0.00	104.38	100.53	100.97	099.15	36.40	0.00	100.97	100.26	26.50	0.00	099.74	099.96		
5 :	1.70	0.00	104.50	100.53	100.95	099.15	30.80	0.00	100.97	100.12	28.20	0.00	099.56	099.89		
6 :	1.70	0.00	104.64	100.49	100.95	099.15	31.80	0.00	100.92	100.07	31.30	0.00	099.48	099.83		
7 :	1.70	0.00	104.90	100.46	101.10	099.35	37.70	0.00	100.74	100.22	42.70	0.00	099.33	100.05		
8 :	1.70	0.00	105.31	100.61	101.21	099.62	44.70	0.00	100.72	100.34	46.40	0.00	099.26	100.12		
9 :	1.70	0.00	105.87	100.84	101.57	099.99	49.40	0.00	100.70	100.42	49.60	0.00	099.09	099.97		
10 :	1.70	0.00	106.30	101.14	101.65	100.26	49.80	0.00	100.43	100.27	50.00	0.00	099.03	099.91		
11 :	1.70	0.00	106.58	101.36	101.98	100.69	50.70	0.00	100.23	100.19	50.00	0.00	098.97	099.85		
12 :	1.70	0.00	106.59	101.44	102.19	101.03	50.00	0.00	100.22	100.01	50.80	0.00	098.82	099.69		
13 :	1.70	0.00	106.55	101.81	102.39	101.12	50.10	0.00	100.11	099.96	51.40	0.00	098.77	099.64		
14 :	1.70	0.00	106.37	102.06	102.32	101.21	50.20	0.00	099.92	099.79	49.90	0.00	098.70	099.73		
15 :	1.70	0.00	106.32	102.09	102.29	101.29	50.30	0.00	099.76	099.74	49.90	0.00	098.73	099.75		
16 :	1.70	0.00	106.25	102.27	102.31	101.68	50.30	0.00	099.74	099.60	50.00	0.00	098.66	099.71		
17 :	1.70	0.00	106.19	102.30	102.38	101.91	52.70	0.00	099.72	099.56	50.20	0.00	098.67	099.59		
18 :	1.70	0.00	105.84	102.45	102.31	101.87	47.20	0.00	099.57	099.42	50.30	0.00	098.69	099.59		
19 :	1.70	0.00	106.19	102.22	102.27	101.51	40.30	0.00	099.39	099.26	50.10	0.00	098.63	099.53		
20 :	1.70	0.00	105.15	102.06	102.09	101.24	39.90	0.00	099.23	098.98	47.10	0.00	098.78	099.42		
21 :	1.70	0.00	104.83	101.73	101.90	100.91	39.80	0.00	099.09	098.67	41.40	0.00	098.73	099.38		
22 :	1.70	0.00	104.63	101.51	101.65	100.58	40.50	0.00	098.90	098.47	39.20	0.00	098.53	099.31		
23 :	1.70	0.00	104.57	101.16	101.42	100.39	39.50	0.00	098.72	098.31	38.50	0.00	098.49	099.24		
24 :	1.70	0.00	104.51	101.00	101.42	100.08	39.50	0.00	098.51	098.26	34.90	0.00	098.41	099.04		
	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR :	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT		
1 :	35.30	0.00	102.61	101.80	32.60	0.00	102.32	104.12	148.90	30.00	105.14	105.26	112.76	106.37		
2 :	30.50	0.00	102.48	101.66	29.00	0.00	102.01	104.07	149.70	30.00	104.73	105.10	112.74	105.76		
3 :	30.10	0.00	102.40	101.46	13.70	0.00	101.57	103.85	149.40	30.00	104.53	105.06	112.65	105.42		
4 :	26.70	0.00	102.37	101.29	12.80	0.00	101.30	103.72	148.90	30.00	104.38	104.62	112.47	105.28		
5 :	26.40	0.00	102.30	101.25	13.00	0.00	101.00	103.65	154.40	30.00	104.47	104.32	112.71	105.24		
6 :	31.20	0.00	102.10	101.31	29.30	0.00	100.68	103.63	154.20	30.00	104.41	104.29	112.81	105.17		
7 :	36.00	0.00	102.06	101.39	41.30	0.00	101.55	104.15	157.60	0.00	104.41	104.41	112.13	105.00		
8 :	43.90	0.00	102.01	101.46	47.00	0.00	101.95	104.11	173.70	0.00	104.22	104.24	107.69	104.97		
9 :	49.30	0.00	101.96	101.56	51.40	0.00	102.15	104.24	170.80	0.00	104.20	104.08	106.05	104.99		
10 :	53.90	0.00	101.79	101.47	50.90	0.00	102.26	104.24	169.50	0.00	104.17	104.29	105.47	105.15		
11 :	54.80	0.00	101.75	101.46	54.80	0.00	102.20	104.44	154.60	0.00	103.99	104.53	105.19	105.24		
12 :	56.20	0.00	101.71	101.59	57.70	0.00	102.29	104.39	167.50	0.00	103.93	104.47	105.14	105.35		
13 :	55.00	0.00	101.68	101.67	55.20	0.00	102.24	104.74	170.20	0.00	103.91	104.60	104.98	105.57		
14 :	56.20	0.00	101.67	101.63	56.50	0.00	102.37	104.74	170.20	0.00	103.93	104.75	105.03	105.97		
15 :	54.20	0.00	101.62	101.63	54.90	0.00	102.51	104.57	169.70	0.00	103.98	104.75	104.89	106.37		
16 :	54.20	0.00	101.65	101.83	54.90	0.00	102.49	104.72	169.80	0.00	104.01	104.74	104.88	106.50		
17 :	54.70	0.00	101.65	101.39	54.90	0.00	102.61	104.62	168.30	0.00	103.99	104.63	104.75	106.86		
18 :	57.10	0.00	101.44	101.53	55.10	0.00	103.03	104.51	168.30	0.00	104.07	104.56	104.76	107.08		
19 :	54.90	0.00	101.42	101.09	55.90	0.00	102.97	104.34	165.00	0.00	104.02	104.63	104.41	107.30		
20 :	54.70	0.00	101.27	100.67	54.00	0.00	102.84	104.02	164.50	0.00	103.93	104.47	104.18	107.54		
21 :	43.50	0.00	101.19	100.28	43.40	0.00	102.24	103.72	140.50	0.00	103.85	104.10	103.96	107.53		
22 :	39.80	0.00	101.00	100.20	43.00	0.00	101.99	103.37	137.00	0.00	103.59	104.01	103.72	107.46		
23 :	36.80	0.00	101.08	100.21	33.70	0.00	101.40	103.19	132.50	0.00	103.41	103.67	103.67	107.09		
24 :	34.10	0.00	100.94	100.55	30.50	0.00	100.94	103.09	128.60	0.00	103.18	103.44	103.48	107.09		

04 JUN 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

04 JUN 2001

	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.
1	1.70	0.00	103.81	101.38	101.34	099.72	31.60	0.00	102.97	101.73	43.40	0.00	100.53	100.73
2	1.80	0.00	103.88	101.32	101.23	099.61	27.50	0.00	102.83	101.61	30.70	0.00	100.61	100.65
3	1.70	0.00	103.99	101.17	101.08	099.48	27.70	0.00	102.86	101.46	18.10	0.00	100.55	100.52
4	1.70	0.00	104.04	100.95	101.18	099.16	30.00	0.00	102.86	101.43	15.40	0.00	101.38	100.50
5	1.80	0.00	104.09	100.82	100.92	099.12	30.40	0.00	102.80	101.42	15.90	0.00	101.06	100.34
6	1.70	0.00	103.89	100.65	100.74	099.11	32.80	0.00	102.64	101.39	22.00	0.00	100.84	100.36
7	1.80	0.00	103.55	100.65	100.68	099.06	38.40	0.00	102.79	101.51	28.70	0.00	100.69	100.62
8	1.70	0.00	103.90	100.74	100.64	099.23	41.60	0.00	102.63	101.70	41.60	0.00	100.55	100.65
9	1.70	0.00	103.79	101.04	100.56	099.46	49.30	0.00	102.63	101.82	40.90	0.00	100.43	100.66
10	1.80	0.00	103.84	101.25	100.63	099.61	50.30	0.00	102.63	101.80	47.80	0.00	100.46	101.88
11	1.80	0.00	104.03	101.48	100.63	099.78	48.80	0.00	102.44	101.78	49.00	0.00	100.40	101.40
12	1.80	0.00	103.79	101.78	100.59	100.16	49.90	0.00	102.46	101.80	49.90	0.00	100.39	100.85
13	1.70	0.00	103.76	101.87	100.61	100.50	50.20	0.00	102.45	101.75	50.50	0.00	100.26	100.86
14	1.70	0.00	103.98	101.97	100.57	100.69	51.10	0.00	102.53	101.70	51.00	0.00	100.24	100.89
15	1.70	0.00	103.91	102.12	100.69	100.89	50.20	0.00	102.08	101.64	59.80	0.00	100.09	100.85
16	1.80	0.00	104.21	102.15	100.88	101.26	50.10	0.00	101.93	101.48	59.20	0.00	100.09	100.90
17	1.70	0.00	104.40	102.32	101.05	101.31	47.30	0.00	101.95	101.54	59.00	0.00	100.24	100.88
18	1.70	0.00	104.45	102.36	101.20	101.20	47.20	0.00	101.68	101.51	60.00	0.00	100.23	100.78
19	1.70	0.00	104.40	102.34	101.21	100.93	50.00	0.00	101.57	101.40	56.60	0.00	100.22	100.73
20	1.70	0.00	104.95	102.21	101.24	100.72	45.50	0.00	101.56	101.29	52.20	0.00	100.26	100.62
21	1.70	0.00	104.94	102.03	101.19	100.31	50.00	0.00	101.57	101.17	53.50	0.00	100.51	100.48
22	1.70	0.00	104.65	101.58	101.15	100.01	47.40	0.00	101.41	101.01	52.50	0.00	100.47	100.27
23	1.70	0.00	104.59	101.42	101.21	099.74	46.90	0.00	101.27	100.76	52.40	0.00	100.28	100.27
24	1.70	0.00	104.57	101.13	101.08	099.61	41.00	0.00	101.26	100.62	43.70	0.00	100.11	100.11
	LOWER MONUMENTAL			ICE HARBOR			MCNARY			PASCO				
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT
1	50.60	0.00	102.96	101.97	60.70	0.00	103.66	104.99	112.50	0.00	105.49	105.65	105.47	107.35
2	41.90	0.00	102.94	101.98	49.90	0.00	103.29	104.62	128.00	0.00	105.40	105.38	105.63	107.13
3	23.30	0.00	102.98	101.33	30.80	0.00	102.69	104.41	145.60	0.00	105.54	105.31	105.70	107.07
4	14.60	0.00	102.86	101.59	17.90	0.00	102.58	104.31	159.90	0.00	105.61	105.19	105.71	106.53
5	15.20	0.00	103.01	101.59	10.20	0.00	102.34	104.15	161.50	0.00	105.59	104.95	105.59	106.16
6	14.00	0.00	102.86	102.68	11.60	0.00	102.47	104.24	161.40	0.00	105.49	105.05	105.50	105.67
7	16.80	0.00	102.91	101.75	10.10	0.00	102.34	104.52	161.30	0.00	105.55	104.75	105.52	105.57
8	21.10	0.00	102.97	102.05	10.10	0.00	102.22	105.19	150.80	0.00	105.27	105.15	105.53	105.52
9	32.10	0.00	102.98	102.49	10.40	0.00	102.17	105.86	147.50	0.00	105.18	105.58	105.72	105.71
10	48.20	0.00	102.86	102.84	14.30	0.00	102.05	107.31	148.40	0.00	105.13	105.68	105.92	106.17
11	53.90	0.00	102.89	103.07	23.20	0.00	101.93	107.81	149.60	0.00	105.24	105.90	106.26	106.49
12	60.00	0.00	102.96	103.02	46.40	0.00	102.92	107.54	125.10	0.00	105.15	106.03	106.57	106.91
13	61.50	0.00	102.95	102.81	57.90	0.00	103.12	106.82	123.50	0.00	105.09	105.71	106.64	107.37
14	61.00	0.00	102.95	103.09	60.10	0.00	103.45	106.75	114.00	0.00	105.95	106.07	106.74	107.84
15	65.80	0.00	102.84	103.28	69.30	0.00	103.60	106.41	113.50	0.00	106.24	105.84	106.81	108.18
16	64.80	0.00	102.87	103.22	71.50	0.00	103.84	106.41	114.00	0.00	106.29	105.99	106.56	108.18
17	65.00	0.00	102.77	103.14	70.20	0.00	103.52	106.23	114.40	0.00	106.14	105.88	106.48	108.39
18	66.50	0.00	102.89	102.69	71.90	0.00	103.48	105.68	111.80	0.00	106.17	105.74	106.05	108.56
19	64.60	0.00	102.84	102.38	72.60	0.00	103.45	105.45	111.60	30.00	106.06	105.48	107.93	108.36
20	60.70	0.00	102.80	102.31	72.80	0.00	103.40	105.06	111.40	30.00	105.99	105.28	111.36	108.24
21	65.50	0.00	102.80	102.10	72.90	0.00	103.74	104.71	147.60	30.00	105.81	105.22	112.86	108.02
22	57.90	0.00	102.73	102.16	68.40	0.00	103.58	104.50	149.20	30.00	105.70	104.87	112.76	107.72
23	54.90	0.00	102.70	102.00	67.90	0.00	103.67	104.31	150.00	30.00	105.63	104.69	112.71	107.41
24	42.20	0.00	102.71	101.80	47.80	0.00	103.11	104.30	150.00	30.00	105.44	104.64	112.92	107.41

03 JUN 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

03 JUN 2001

HOUR	DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
	TOTAL DISCH. KCFS	SPILL KCFS	GAS TAILW.	%SAT	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT	
1	1.80	0.00	103.69	100.94	101.16	099.72	40.60	0.00	102.58	101.51	39.40	0.00	101.62	101.29		
2	1.80	0.00	103.57	100.80	101.12	099.42	34.10	0.00	102.47	101.62	33.00	0.00	101.63	101.26		
3	1.80	0.00	103.54	100.60	100.97	099.27	33.80	0.00	102.46	101.60	32.60	0.00	101.57	101.22		
4	1.70	0.00	103.71	100.45	100.81	099.12	33.70	0.00	102.45	101.43	29.60	0.00	101.44	100.97		
5	1.70	0.00	103.69	100.45	100.56	098.97	33.60	0.00	102.35	101.21	27.70	0.00	101.41	100.79		
6	1.80	0.00	103.44	100.27	100.34	098.77	34.10	0.00	102.35	101.24	27.90	0.00	101.25	100.62		
7	1.80	0.00	103.57	100.35	100.29	098.74	33.90	0.00	102.34	101.20	27.90	0.00	101.06	100.56		
8	1.80	0.00	103.50	100.45	100.34	098.85	39.70	0.00	102.19	101.29	29.20	0.00	101.05	100.70		
9	1.70	0.00	103.90	100.72	100.33	099.35	43.20	0.00	102.21	101.40	44.90	0.00	100.87	101.21		
10	1.70	0.00	104.12	101.01	100.42	099.62	44.30	0.00	102.36	101.41	43.80	0.00	100.89	101.10		
11	1.80	0.00	104.35	101.20	100.67	099.82	45.10	0.00	102.20	101.38	45.90	0.00	100.93	101.07		
12	1.80	0.00	104.61	101.59	101.01	099.97	44.30	0.00	102.42	101.48	44.80	0.00	100.79	101.15		
13	1.80	0.00	104.90	101.85	100.99	100.34	44.40	0.00	102.42	101.63	44.70	0.00	100.82	100.98		
14	1.80	0.00	105.08	102.34	101.17	101.20	44.40	0.00	102.44	101.64	45.60	0.00	100.66	100.98		
15	1.80	0.00	105.27	102.77	101.76	101.43	44.30	0.00	102.37	101.41	46.30	0.00	100.63	100.98		
16	1.80	0.00	105.02	102.79	101.58	101.39	41.50	0.00	102.33	101.38	46.60	0.00	100.59	100.94		
17	1.80	0.00	104.74	102.68	101.73	101.50	46.70	0.00	102.40	101.45	49.90	0.00	100.69	101.30		
18	1.70	0.00	104.48	102.59	101.61	101.43	49.10	0.00	102.34	101.68	50.30	0.00	100.61	101.09		
19	1.70	0.00	104.74	102.30	101.47	101.00	49.40	0.00	102.27	101.43	50.60	0.00	100.56	100.98		
20	1.80	0.00	104.07	102.03	101.32	100.53	56.40	0.00	102.38	101.59	60.20	0.00	100.50	100.87		
21	1.80	0.00	103.99	101.80	101.31	100.20	59.20	0.00	102.60	101.59	60.10	0.00	100.54	100.93		
22	1.80	0.00	103.77	101.54	101.27	099.95	61.40	0.00	102.77	101.66	65.20	0.00	100.58	100.83		
23	1.70	0.00	103.59	101.51	101.26	099.95	46.90	0.00	102.87	101.75	62.50	0.00	100.58	100.82		
24	1.70	0.00	103.88	101.42	101.41	099.77	45.20	0.00	102.78	101.81	52.20	0.00	100.62	100.71		
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT		
1	39.50	0.00	103.38	102.22	38.50	0.00	103.29	105.27	92.90	29.30	105.97	106.37	113.67	106.46		
2	35.20	0.00	103.42	102.17	32.50	0.00	103.13	105.11	87.10	29.30	105.81	106.31	113.67	106.17		
3	35.50	0.00	103.41	102.13	33.40	0.00	102.98	104.96	86.40	29.40	105.69	106.18	113.31	105.75		
4	29.70	0.00	103.12	101.83	27.00	0.00	102.68	104.93	92.60	29.40	105.35	106.27	113.68	105.35		
5	29.20	0.00	103.08	101.79	28.30	0.00	102.38	104.91	96.50	29.40	105.31	105.99	113.77	105.03		
6	29.10	0.00	103.07	101.91	27.40	0.00	102.59	105.29	96.60	25.70	105.02	105.94	113.10	104.88		
7	29.20	0.00	103.01	102.00	28.60	0.00	102.43	105.28	99.30	0.00	104.96	105.89	113.28	104.67		
8	30.90	0.00	102.98	102.95	27.80	0.00	102.32	105.89	101.60	0.00	104.84	105.88	110.20	104.80		
9	35.20	0.00	103.01	102.54	28.10	0.00	102.31	106.49	110.10	0.00	104.83	105.64	107.33	104.92		
10	44.10	0.00	102.97	102.84	35.80	0.00	102.43	106.97	109.60	0.00	104.80	105.49	106.64	105.17		
11	45.80	0.00	102.98	102.93	43.00	0.00	103.21	107.30	119.00	0.00	104.80	105.47	106.51	105.61		
12	46.00	0.00	102.88	102.97	44.90	0.00	103.37	107.02	120.10	0.00	104.82	105.63	106.68	106.12		
13	44.60	0.00	102.81	102.49	44.20	0.00	103.42	107.10	116.30	0.00	106.35	105.67	106.61	106.45		
14	44.20	0.00	102.78	102.89	45.20	0.00	103.42	106.78	110.00	0.00	106.64	105.39	106.78	107.09		
15	44.30	0.00	102.95	103.25	45.20	0.00	103.43	106.89	114.50	0.00	106.83	105.34	107.09	107.52		
16	46.20	0.00	102.89	103.45	43.90	0.00	103.46	106.34	108.80	0.00	107.00	105.66	106.76	107.97		
17	52.30	0.00	102.73	102.58	50.60	0.00	103.50	106.51	105.80	0.00	107.02	105.65	106.63	108.24		
18	51.80	0.00	102.92	102.61	49.80	0.00	103.50	106.04	110.80	0.00	107.04	105.82	106.41	108.30		
19	56.20	0.00	103.50	102.56	56.80	0.00	103.51	105.68	108.10	0.00	107.11	105.82	106.13	108.14		
20	69.20	0.00	103.49	102.56	73.10	0.00	103.63	105.03	109.80	0.00	106.50	105.85	105.86	107.94		
21	69.60	0.00	103.56	102.41	71.10	0.00	104.37	104.93	119.70	0.00	106.15	105.57	105.70	107.88		
22	69.50	0.00	103.03	102.23	73.00	0.00	104.62	104.91	122.10	0.00	106.05	105.28	105.67	107.77		
23	69.20	0.00	102.90	102.25	73.40	0.00	104.36	104.91	121.00	0.00	106.01	105.07	105.49	107.66		
24	66.40	0.00	102.88	102.10	73.10	0.00	103.66	104.76	96.40	0.00	105.78	105.10	105.51	107.66		

02 JUN 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

02 JUN 2001

	DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	
1	1.80	0.00	102.02	101.03	101.23	099.61	43.90	0.00	102.90	101.16	39.40	0.00	103.03	102.44	
2	1.80	0.00	101.86	100.83	101.01	099.31	40.50	0.00	102.89	101.29	34.90	0.00	103.04	102.54	
3	1.80	0.00	101.79	100.67	100.70	098.95	40.30	0.00	102.85	101.20	34.60	0.00	102.82	102.52	
4	1.80	0.00	102.17	100.48	100.61	098.77	38.40	0.00	102.59	101.25	30.30	0.00	102.69	102.37	
5	1.80	0.00	102.21	100.46	100.33	098.62	35.10	0.00	102.56	101.17	30.40	0.00	102.50	102.19	
6	1.80	0.00	102.20	100.56	100.20	098.58	35.70	0.00	102.25	101.12	30.60	0.00	102.35	102.13	
7	1.80	0.00	102.85	100.67	100.23	098.41	44.40	0.00	102.36	101.22	40.10	0.00	102.34	102.27	
8	1.80	0.00	103.35	100.77	100.26	098.48	45.20	0.00	102.30	101.21	42.80	0.00	102.18	102.51	
9	1.80	0.00	103.89	101.03	100.53	098.73	46.60	0.00	102.32	101.20	46.30	0.00	102.16	102.34	
10	1.80	0.00	104.29	101.32	100.76	099.30	48.10	0.00	102.32	101.36	53.90	0.00	102.20	102.45	
11	1.70	0.00	104.72	102.02	100.91	099.84	50.20	0.00	102.54	101.71	55.10	0.00	102.11	102.45	
12	1.80	0.00	105.31	102.65	101.38	100.93	50.40	0.00	102.34	102.02	55.80	0.00	102.15	102.52	
13	1.80	0.00	106.23	103.31	102.09	101.99	56.80	0.00	102.66	102.38	61.00	0.00	102.10	102.56	
14	1.80	0.00	106.72	103.47	102.58	102.43	57.40	0.00	102.85	102.04	61.30	0.00	102.10	102.46	
15	1.80	0.00	106.07	103.53	102.84	102.91	58.40	0.00	102.76	101.91	61.30	0.00	102.15	102.39	
16	1.80	0.00	105.90	103.52	102.76	102.94	57.40	0.00	102.64	101.94	61.30	0.00	102.07	102.28	
17	1.80	0.00	105.93	103.13	102.60	102.79	57.50	0.00	102.68	101.85	61.20	0.00	102.10	102.21	
18	1.80	0.00	105.82	102.89	102.80	102.56	59.10	0.00	102.86	101.90	62.10	0.00	102.17	102.26	
19	1.70	0.00	105.93	102.49	102.61	102.03	54.50	0.00	102.84	101.86	57.80	0.00	102.02	102.17	
20	1.80	0.00	104.95	102.19	102.32	101.62	50.00	0.00	102.84	101.90	55.00	0.00	101.87	102.05	
21	1.80	0.00	104.28	101.81	102.09	101.12	47.40	0.00	102.86	101.90	51.30	0.00	101.90	101.98	
22	1.70	0.00	103.83	101.33	101.85	100.58	44.00	0.00	102.98	101.89	47.00	0.00	101.86	101.82	
23	1.70	0.00	103.84	101.27	101.54	100.14	41.40	0.00	102.94	101.70	43.30	0.00	101.71	101.68	
24	1.70	0.00	103.72	101.10	101.44	099.85	41.10	0.00	102.77	101.64	40.40	0.00	101.67	101.48	
	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT	
1	38.80	0.00	103.96	102.88	33.80	0.00	104.05	105.64	131.90	0.00	104.45	105.50	105.21	107.60	
2	34.60	0.00	103.89	102.67	25.40	0.00	103.74	105.78	134.60	0.00	104.32	105.33	105.24	107.20	
3	34.30	0.00	103.86	102.51	25.40	0.00	103.49	105.52	132.70	0.00	104.42	105.33	105.20	107.31	
4	30.80	0.00	103.81	102.27	20.40	0.00	103.28	105.45	130.80	0.00	104.34	105.33	105.14	107.03	
5	30.10	0.00	103.63	102.26	20.00	0.00	103.12	105.37	133.10	0.00	104.49	105.12	105.12	106.99	
6	30.10	0.00	103.63	102.24	20.90	0.00	102.96	105.37	132.70	0.00	104.62	104.96	105.10	106.80	
7	30.50	0.00	103.62	102.19	31.00	0.00	102.68	105.81	137.70	0.00	104.83	104.84	105.22	106.63	
8	41.70	0.00	103.45	102.45	41.40	0.00	103.20	106.28	141.00	0.00	104.46	104.71	105.47	106.63	
9	45.10	0.00	103.60	102.90	46.30	0.00	103.63	106.79	142.70	0.00	104.43	104.98	105.75	106.94	
10	52.10	0.00	103.49	103.25	52.60	0.00	103.96	106.81	135.20	0.00	104.50	104.92	105.94	107.24	
11	54.40	0.00	103.56	103.54	53.10	0.00	104.23	107.15	137.00	0.00	104.85	105.30	106.12	107.68	
12	54.00	0.00	103.61	103.68	53.10	0.00	104.29	106.89	128.80	0.00	105.17	105.65	106.51	108.03	
13	59.90	0.00	103.54	103.76	60.00	0.00	104.62	106.81	129.00	0.00	105.97	105.73	106.69	108.49	
14	60.40	0.00	103.61	103.71	60.50	0.00	104.85	107.02	128.10	0.00	106.53	105.80	106.74	108.64	
15	63.00	0.00	103.61	103.18	66.30	0.00	104.74	106.35	120.00	0.00	106.72	105.86	106.93	108.86	
16	63.50	0.00	103.50	103.06	65.70	0.00	104.57	106.99	124.80	0.00	106.76	106.05	106.99	109.21	
17	65.00	0.00	103.86	103.45	64.30	0.00	104.58	106.47	117.40	0.00	106.79	105.93	106.93	109.09	
18	63.60	0.00	103.78	103.50	64.50	0.00	104.53	106.28	112.70	0.00	106.80	105.99	106.81	108.99	
19	63.60	0.00	103.79	103.25	65.20	0.00	104.50	106.01	121.40	29.00	106.76	106.00	108.34	108.63	
20	64.60	0.00	103.60	102.90	65.20	0.00	104.43	105.64	119.90	29.30	106.73	105.92	112.04	108.23	
21	55.80	0.00	103.59	102.69	57.50	0.00	104.35	105.59	122.20	29.30	106.50	105.83	112.80	107.79	
22	53.70	0.00	103.53	102.60	58.00	0.00	104.17	105.41	116.20	29.30	106.50	105.82	113.29	107.47	
23	49.50	0.00	103.50	102.61	50.60	0.00	104.17	105.40	104.10	29.30	106.32	105.76	113.52	107.19	
24	42.00	0.00	103.49	102.41	42.30	0.00	103.72	105.61	98.70	29.30	106.27	105.69	113.45	107.19	

01 JUN 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

01 JUN 2001

	DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	
1	1.80	0.00	103.54	103.31	102.65	101.71	35.60	0.00	105.07	101.26	35.60	0.00	108.09	103.36	
2	1.80	0.00	103.70	103.25	102.42	101.33	35.40	0.00	104.56	101.20	29.60	0.00	107.58	103.55	
3	1.80	0.00	103.64	102.97	102.23	101.10	35.10	0.00	104.55	101.27	29.40	0.00	107.32	103.63	
4	1.80	0.00	103.57	102.89	101.85	100.96	35.10	0.00	104.46	101.33	29.60	0.00	107.05	103.77	
5	1.70	0.00	103.76	102.81	101.64	100.52	35.50	0.00	104.81	101.41	31.20	0.00	106.94	104.09	
6	1.80	0.00	103.93	102.76	101.37	100.46	49.40	0.00	104.43	101.59	30.70	0.00	106.73	104.24	
7	1.80	0.00	104.29	102.80	101.40	100.80	62.70	0.00	104.10	101.86	48.60	0.00	106.35	104.69	
8	1.70	0.00	104.83	103.00	101.71	101.29	62.10	0.00	104.17	101.89	63.80	0.00	106.08	104.54	
9	1.80	0.00	105.63	103.26	102.02	101.82	62.10	0.00	104.03	101.89	64.60	0.00	105.96	104.58	
10	1.80	0.00	106.34	103.69	102.27	102.48	64.50	0.00	104.54	102.07	66.90	0.00	105.77	104.91	
11	1.80	0.00	106.61	104.27	102.64	103.42	63.20	0.00	105.31	102.26	68.20	0.00	105.95	105.11	
12	1.80	0.00	107.35	104.86	103.27	104.22	62.90	0.00	105.95	102.64	66.60	0.00	106.09	105.32	
13	1.80	0.00	108.36	105.28	103.73	105.00	61.00	0.00	105.78	103.15	65.10	0.00	106.03	105.45	
14	1.80	0.00	108.97	105.56	104.36	105.63	60.40	0.00	105.46	103.14	67.90	0.00	106.07	105.44	
15	1.80	0.00	109.09	105.52	104.64	106.04	60.40	0.00	104.77	103.13	65.20	0.00	105.64	105.03	
16	1.80	0.00	108.56	105.01	104.97	105.34	60.20	0.00	104.79	102.37	65.80	0.00	105.27	104.51	
17	1.80	0.00	106.36	104.25	104.09	104.00	60.70	0.00	103.71	102.03	65.60	0.00	104.72	103.98	
18	1.80	0.00	104.78	103.27	103.30	102.84	62.00	0.00	102.96	101.72	59.50	0.00	104.27	103.68	
19	1.80	0.00	106.36	102.83	102.69	102.18	52.80	0.00	102.84	101.62	52.60	0.00	104.10	103.55	
20	1.80	0.00	103.60	102.58	102.35	101.45	45.10	0.00	102.64	101.57	52.30	0.00	103.95	103.30	
21	1.80	0.00	103.27	102.03	102.19	100.91	44.30	0.00	102.49	101.57	47.70	0.00	103.73	103.07	
22	1.80	0.00	102.76	101.70	101.95	100.49	44.60	0.00	103.00	101.43	45.10	0.00	103.45	102.96	
23	1.80	0.00	102.49	101.51	101.68	100.18	45.00	0.00	102.76	101.46	39.90	0.00	103.14	102.70	
24	1.80	0.00	102.23	101.32	101.54	099.84	44.00	0.00	102.80	101.23	39.40	0.00	102.95	102.65	
	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT	
1	40.60	0.00	106.60	104.63	39.90	0.00	107.82	107.26	133.30	30.20	109.47	109.87	114.35	113.15	
2	27.50	0.00	106.63	104.42	38.80	0.00	106.69	107.20	133.50	30.20	106.14	109.60	114.36	113.00	
3	26.60	0.00	106.46	104.49	29.00	0.00	106.33	107.02	133.90	30.20	105.90	108.84	114.17	113.00	
4	27.00	0.00	106.59	104.45	26.80	0.00	105.98	106.96	135.20	30.20	106.36	108.60	114.01	113.05	
5	26.50	0.00	106.50	104.32	27.30	0.00	105.58	106.82	138.10	30.20	106.66	108.32	114.11	112.93	
6	29.80	0.00	106.23	104.45	20.60	0.00	104.93	107.24	161.30	30.20	106.54	107.89	113.98	112.81	
7	49.40	0.00	106.01	105.13	21.90	0.00	105.06	107.72	162.30	0.00	106.26	107.59	113.00	112.69	
8	50.50	0.00	105.88	105.14	24.30	0.00	105.09	108.03	172.20	0.00	106.33	107.47	109.43	112.65	
9	62.40	0.00	105.92	106.07	35.70	0.00	106.31	108.49	173.40	0.00	106.52	107.54	108.01	112.74	
10	68.90	0.00	105.58	105.61	52.00	0.00	106.53	109.61	173.60	0.00	106.97	107.55	107.99	112.98	
11	69.10	0.00	106.17	105.63	73.00	0.00	107.44	109.15	173.80	0.00	106.83	107.50	108.09	113.24	
12	67.80	0.00	106.67	106.05	73.30	0.00	108.32	109.09	172.70	0.00	106.45	107.53	108.13	113.63	
13	66.20	0.00	106.95	105.94	73.30	0.00	108.69	108.87	173.20	0.00	106.47	107.58	107.98	113.67	
14	66.30	0.00	107.05	106.25	73.30	0.00	108.73	109.24	173.80	0.00	106.60	107.92	107.82	113.81	
15	67.80	0.00	107.14	105.76	73.50	0.00	106.59	107.70	174.50	0.00	106.30	107.75	107.07	112.79	
16	66.20	0.00	105.23	104.88	73.50	0.00	105.61	106.75	174.50	0.00	106.17	107.50	106.61	111.75	
17	66.10	0.00	104.97	104.33	73.30	0.00	105.26	106.61	174.40	0.00	106.61	107.25	106.47	111.29	
18	65.70	0.00	104.80	104.20	74.70	0.00	105.25	107.09	173.90	0.00	106.32	107.14	106.18	110.80	
19	67.50	0.00	104.84	104.21	71.50	0.00	105.41	106.77	173.20	0.00	106.13	106.90	105.99	110.38	
20	66.40	0.00	104.86	104.09	69.20	0.00	105.23	106.84	158.80	0.00	105.78	106.55	105.62	109.77	
21	65.20	0.00	104.72	103.72	70.90	0.00	105.08	106.12	156.70	0.00	105.33	106.23	105.45	109.09	
22	55.30	0.00	104.50	103.27	68.80	0.00	104.76	105.99	134.10	0.00	104.90	105.98	105.16	108.81	
23	45.00	0.00	104.15	102.96	54.00	0.00	104.71	106.05	130.90	0.00	104.72	105.79	105.12	108.28	
24	40.40	0.00	104.00	102.96	41.70	0.00	104.50	105.59	130.20	0.00	104.61	105.71	105.17	108.28	

31 MAY 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

31 MAY 2001

	DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR :	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	
1 :	1.70	0.00	103.64	102.62	102.40	100.80	40.80	0.00	100.31	099.64	30.80	0.00	101.21	101.46	
2 :	1.70	0.00	103.65	102.51	102.13	100.51	30.00	0.00	100.45	099.64	38.60	0.00	101.24	101.43	
3 :	1.70	0.00	103.53	102.23	101.97	100.39	29.40	0.00	100.57	099.48	38.60	0.00	101.21	101.31	
4 :	1.70	0.00	103.56	102.23	101.72	100.12	29.80	0.00	100.72	099.47	32.10	0.00	101.25	101.20	
5 :	1.70	0.00	103.53	102.14	101.48	099.93	45.40	0.00	100.71	099.89	31.50	0.00	101.12	101.20	
6 :	1.70	0.00	103.53	101.98	101.21	099.96	62.00	0.00	100.84	099.77	32.30	0.00	101.10	101.01	
7 :	1.70	0.00	103.92	102.08	101.25	100.09	62.60	0.00	101.15	099.76	45.00	0.00	101.12	101.31	
8 :	1.70	0.00	104.41	102.28	101.56	100.77	62.80	0.00	101.30	099.97	58.30	0.00	101.32	101.65	
9 :	1.70	0.00	105.13	102.64	101.97	101.54	62.90	0.00	101.35	100.00	64.40	0.00	101.49	101.69	
10 :	1.70	0.00	105.95	103.18	102.34	102.42	64.10	0.00	101.69	100.11	64.70	0.00	101.85	101.84	
11 :	1.70	0.00	106.78	103.84	102.85	103.35	63.00	0.00	102.33	100.27	72.00	0.00	102.44	101.90	
12 :	1.70	0.00	107.56	104.44	103.34	104.25	63.10	0.00	102.51	100.49	72.70	0.00	102.82	102.12	
13 :	1.80	0.00	107.77	104.84	103.93	104.87	63.00	0.00	103.86	100.84	72.10	0.00	102.73	102.33	
14 :	1.70	0.00	107.06	105.23	104.24	105.56	63.10	0.00	103.56	100.72	75.10	0.00	102.19	102.61	
15 :	1.80	0.00	106.66	105.50	104.71	105.97	64.00	0.00	104.21	100.83	72.10	0.00	102.91	102.47	
16 :	1.70	0.00	106.52	105.60	104.96	106.21	63.00	0.00	103.69	100.82	63.00	0.00	102.72	102.73	
17 :	1.80	0.00	105.88	105.58	105.06	106.19	63.00	0.00	103.50	100.93	62.80	0.00	102.85	102.84	
18 :	1.80	0.00	105.59	105.36	105.06	106.06	63.20	0.00	104.45	101.08	62.60	0.00	102.98	102.97	
19 :	1.80	0.00	105.88	105.02	104.66	105.47	63.10	0.00	103.89	101.16	63.80	0.00	107.93	103.06	
20 :	1.80	0.00	104.53	104.68	104.49	104.73	56.20	0.00	103.77	101.23	63.50	0.00	108.94	103.15	
21 :	1.80	0.00	103.55	104.11	103.93	103.77	54.70	0.00	105.61	101.15	62.50	0.00	109.16	103.12	
22 :	1.80	0.00	103.32	103.73	103.49	103.01	50.10	0.00	104.60	101.23	62.70	0.00	108.98	103.15	
23 :	1.80	0.00	103.63	103.50	103.10	102.53	46.20	0.00	105.06	101.13	52.70	0.00	108.62	103.33	
24 :	1.70	0.00	103.67	103.41	102.86	102.02	43.60	0.00	105.00	101.20	36.20	0.00	108.26	103.26	
	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR :	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT	
1 :	41.40	0.00	104.10	102.59	41.10	0.00	104.66	104.41	90.70	0.00	109.13	104.97	105.15	108.58	
2 :	40.00	0.00	104.35	102.96	41.50	0.00	104.66	104.44	87.80	0.00	108.74	105.41	105.03	108.59	
3 :	39.70	0.00	104.47	102.66	39.80	0.00	104.11	104.67	88.90	0.00	107.51	106.33	105.12	108.58	
4 :	30.70	0.00	104.51	102.51	31.10	0.00	103.50	104.73	118.70	0.00	106.85	108.60	105.39	108.50	
5 :	30.20	0.00	104.34	102.33	32.00	0.00	103.21	104.58	120.90	0.00	104.38	108.74	105.53	108.36	
6 :	30.60	0.00	104.35	102.18	32.00	0.00	103.29	104.76	165.10	0.00	104.51	107.44	105.58	108.23	
7 :	38.90	0.00	104.51	102.63	38.30	0.00	104.07	105.19	168.50	0.00	104.28	107.71	105.62	108.25	
8 :	58.90	0.00	104.56	103.63	58.50	0.00	104.63	106.27	170.10	0.00	104.35	108.28	105.64	108.25	
9 :	68.80	0.00	104.62	103.63	67.10	0.00	104.45	106.01	170.00	0.00	105.88	107.85	105.99	108.44	
10 :	69.00	0.00	105.27	104.13	67.90	0.00	104.13	106.61	170.60	0.00	106.63	108.32	106.21	108.81	
11 :	72.00	0.00	104.54	104.58	72.20	0.00	105.13	106.68	170.30	0.00	108.30	107.76	106.48	109.32	
12 :	70.40	0.00	104.78	104.87	72.70	0.00	107.34	106.88	170.20	0.00	108.55	111.48	106.83	109.71	
13 :	70.40	0.00	104.71	105.09	71.00	0.00	108.74	107.30	170.30	0.00	108.25	113.18	107.38	110.20	
14 :	69.90	0.00	104.85	105.31	72.60	0.00	108.66	107.81	169.50	0.00	109.47	113.99	107.66	110.51	
15 :	71.20	0.00	105.42	105.73	70.80	0.00	109.01	108.00	167.80	0.00	109.49	112.01	107.68	110.90	
16 :	71.40	0.00	106.65	105.90	72.10	0.00	107.67	107.79	168.90	0.00	108.03	110.31	107.60	111.50	
17 :	69.90	0.00	108.90	105.76	69.40	0.00	107.39	107.83	167.90	0.00	108.16	113.39	107.60	111.91	
18 :	71.50	0.00	110.65	105.65	69.30	0.00	109.76	107.56	167.20	0.00	109.26	114.72	107.71	112.30	
19 :	72.30	0.00	109.55	105.75	70.90	0.00	112.32	107.40	193.10	30.10	109.80	114.85	109.70	112.71	
20 :	69.30	0.00	110.41	105.40	69.50	0.00	111.92	107.47	173.40	30.10	108.70	114.73	112.49	112.92	
21 :	69.70	0.00	106.69	105.28	69.50	0.00	110.19	107.53	171.50	30.10	108.21	113.28	113.49	113.15	
22 :	70.20	0.00	108.53	105.14	70.30	0.00	109.32	107.18	168.20	30.10	108.34	111.53	113.73	113.16	
23 :	61.10	0.00	108.04	105.46	55.90	0.00	109.17	107.42	137.30	30.20	106.49	111.05	113.70	113.25	
24 :	50.70	0.00	106.91	105.10	49.30	0.00	108.26	107.32	133.30	30.30	106.87	110.20	114.14	113.25	

30 MAY 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

30 MAY 2001

	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR :	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1 :	1.70	0.00	101.62	101.78	101.79	099.95	54.50	0.00	100.83	099.71	56.80	0.00	101.89	101.96
2 :	1.70	0.00	101.86	101.65	101.48	099.77	54.70	0.00	100.81	099.84	53.60	0.00	101.85	101.80
3 :	1.70	0.00	102.25	101.46	101.16	099.63	53.50	0.00	100.91	099.65	54.90	0.00	101.65	101.72
4 :	1.70	0.00	102.64	101.42	100.83	099.31	56.30	0.00	100.99	099.63	54.40	0.00	101.62	101.83
5 :	1.70	0.00	103.11	101.38	100.63	099.15	57.30	0.00	100.97	099.60	54.40	0.00	101.49	101.74
6 :	1.70	0.00	103.45	101.35	100.43	098.98	59.60	0.00	100.79	099.56	55.40	0.00	101.42	101.50
7 :	1.70	0.00	103.59	101.43	100.46	099.18	62.00	0.00	100.64	099.64	63.30	0.00	101.41	101.60
8 :	1.70	0.00	104.11	101.73	100.63	099.85	67.70	0.00	100.89	099.65	64.90	0.00	101.39	101.60
9 :	1.70	0.00	104.97	101.99	101.10	100.59	65.70	0.00	100.88	099.93	65.60	0.00	101.43	101.77
10 :	1.70	0.00	105.88	102.51	101.44	101.24	66.20	0.00	101.09	100.01	65.50	0.00	101.59	102.30
11 :	1.70	0.00	106.54	103.08	101.88	101.96	66.10	0.00	101.09	100.15	67.00	0.00	101.45	102.08
12 :	1.70	0.00	107.45	103.53	102.31	102.77	65.50	0.00	101.11	100.17	66.70	0.00	101.49	102.11
13 :	1.70	0.00	108.04	104.03	102.76	103.43	67.20	0.00	102.01	100.37	66.00	0.00	101.54	102.04
14 :	1.70	0.00	108.24	104.50	103.34	103.84	59.10	0.00	101.20	100.12	64.60	0.00	101.46	101.94
15 :	1.70	0.00	108.26	104.81	103.72	104.03	62.10	0.00	101.12	100.13	61.00	0.00	101.53	102.00
16 :	1.70	0.00	108.00	104.97	103.89	103.94	61.70	0.00	100.61	100.07	63.60	0.00	101.51	101.98
17 :	1.70	0.00	107.53	104.88	104.11	103.71	57.40	0.00	100.61	099.95	61.60	0.00	101.53	101.90
18 :	1.70	0.00	106.90	104.56	104.11	103.66	58.10	0.00	100.52	099.97	62.10	0.00	101.50	101.98
19 :	1.70	0.00	107.53	104.18	103.79	103.50	57.20	0.00	100.52	099.85	61.70	0.00	101.49	101.87
20 :	1.70	0.00	105.53	103.93	103.60	103.08	57.90	0.00	100.59	099.88	59.50	0.00	101.52	101.82
21 :	1.70	0.00	104.38	103.62	103.29	102.27	56.60	0.00	100.41	099.63	61.40	0.00	101.41	101.66
22 :	1.70	0.00	103.68	103.28	102.99	101.83	57.60	0.00	100.28	099.59	61.30	0.00	101.30	101.58
23 :	1.70	0.00	103.37	102.99	102.75	101.41	56.30	0.00	100.12	099.57	59.90	0.00	101.32	101.43
24 :	1.70	0.00	103.49	102.85	102.63	101.01	53.20	0.00	100.40	099.61	40.70	0.00	101.30	101.57
	LOWER MONUMENTAL			ICE HARBOR			MCNARY			PASCO				
HOUR :	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1 :	52.90	0.00	104.72	102.71	52.50	0.00	104.00	104.26	109.70	30.00	105.46	107.97	113.54	103.68
2 :	53.40	0.00	104.69	102.61	52.00	0.00	103.81	103.97	109.40	30.00	106.39	108.62	113.59	103.53
3 :	53.30	0.00	104.53	104.83	53.60	0.00	103.67	103.90	109.80	30.00	106.32	108.30	113.52	103.21
4 :	54.80	0.00	104.35	102.68	53.50	0.00	103.38	103.90	118.30	30.00	105.97	107.59	113.50	103.02
5 :	57.00	0.00	104.37	102.53	52.70	0.00	103.20	104.16	118.80	30.00	105.47	107.30	113.36	102.89
6 :	58.10	0.00	104.15	102.40	51.80	0.00	103.11	104.25	120.10	30.00	105.34	107.28	113.33	102.76
7 :	64.30	0.00	103.86	103.00	57.10	0.00	103.25	104.12	129.90	0.00	104.85	107.50	113.39	102.67
8 :	69.20	0.00	104.08	102.98	71.30	0.00	103.23	104.41	148.90	0.00	104.82	107.29	109.32	102.68
9 :	70.60	0.00	103.87	103.31	73.20	0.00	103.20	104.46	142.60	0.00	104.56	107.29	108.88	102.91
10 :	71.10	0.00	103.25	103.51	73.40	0.00	103.50	105.07	156.50	0.00	106.31	107.45	108.28	103.58
11 :	71.00	0.00	104.05	103.52	76.10	0.00	103.66	105.10	157.40	0.00	107.28	107.49	107.26	104.30
12 :	70.00	0.00	103.78	103.75	70.60	0.00	104.10	105.74	157.90	0.00	108.50	107.82	106.92	104.83
13 :	72.10	0.00	103.68	103.74	72.60	0.00	104.01	105.52	152.60	0.00	108.68	107.33	106.74	105.66
14 :	69.60	0.00	103.63	103.89	70.50	0.00	103.26	105.99	149.10	0.00	109.02	107.00	106.38	106.39
15 :	68.90	0.00	103.42	103.72	67.80	0.00	103.30	105.51	155.20	0.00	110.12	107.36	106.33	107.38
16 :	60.10	0.00	103.31	103.64	59.30	0.00	103.41	105.45	156.00	0.00	111.13	106.53	106.32	108.15
17 :	59.30	0.00	103.93	103.88	58.50	0.00	103.33	105.64	155.70	0.00	112.66	106.58	106.35	108.72
18 :	62.20	0.00	105.05	103.82	59.60	0.00	103.41	105.39	163.30	0.00	110.48	106.28	106.28	108.94
19 :	61.90	0.00	104.81	103.50	57.00	0.00	105.79	105.09	166.70	0.00	106.69	111.99	106.29	109.13
20 :	62.80	0.00	104.45	103.24	56.80	0.00	105.82	104.78	167.00	0.00	107.63	110.39	106.20	109.10
21 :	64.90	0.00	104.45	103.17	58.20	0.00	105.92	104.61	167.00	0.00	108.04	107.84	106.07	109.10
22 :	63.90	0.00	104.23	102.95	56.70	0.00	106.00	104.44	166.30	0.00	104.99	106.81	105.89	108.99
23 :	62.00	0.00	104.13	102.80	56.30	0.00	105.15	104.69	165.00	0.00	108.88	105.98	105.60	108.97
24 :	55.40	0.00	104.09	102.77	56.90	0.00	105.14	104.53	139.40	0.00	109.12	105.53	105.43	108.97

29 MAY 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

29 MAY 2001

HOUR	DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
	TOTAL DISCH. KCFS	SPILL KCFS	GAS TAILW.	%SAT	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	
1	1.40	0.00	102.20		101.61	101.67	099.40	52.00	0.00	101.98	113.72	73.70	0.00	103.32	103.27	
2	1.40	0.00	102.02		101.40	101.27	099.33	52.30	0.00	101.86	114.22	57.30	0.00	103.10	103.02	
3	1.50	0.00	101.97		101.27	101.01	099.12	44.20	0.00	101.95	115.08	48.90	0.00	102.89	102.96	
4	1.40	0.00	101.92		101.06	100.82	099.08	49.30	0.00	101.75	118.72	48.90	0.00	102.82	102.80	
5	1.40	0.00	101.67		101.14	100.49	098.84	49.00	0.00	101.52	118.48	43.80	0.00	102.67	102.59	
6	1.40	0.00	101.77		101.06	100.27	098.77	53.70	0.00	101.60	108.35	56.80	0.00	102.60	102.55	
7	1.40	0.00	102.12		101.18	100.27	099.01	68.60	0.00	101.56	105.77	76.00	0.00	102.75	102.64	
8	1.50	0.00	102.67		101.41	100.39	099.68	74.80	0.00	101.37	103.99	78.10	0.00	102.67	102.73	
9	1.40	0.00	103.44		101.73	100.62	100.29	76.50	0.00	101.33	102.94	78.60	0.00	102.52	102.69	
10	1.40	0.00	104.28		102.11	100.88	100.97	80.70	0.00	101.31	102.38	78.30	0.00	102.48	102.68	
11	1.40	0.00	105.22		102.65	101.40	101.79	81.60	0.00	101.23	101.99	80.10	0.00	102.52	102.70	
12	1.40	0.00	106.24		103.25	101.90	102.51	80.00	0.00	101.27	101.78	80.10	0.00	102.49	102.93	
13	1.50	0.00	106.93		103.67	102.30	103.11	79.70	0.00	101.31	101.68	81.70	0.00	102.47	102.90	
14	1.40	0.00	107.18		104.13	102.74	103.60	78.50	0.00	101.35	101.57	81.20	0.00	102.44	102.97	
15	1.50	0.00	107.12		104.25	103.14	103.93	78.90	0.00	101.40	101.37	82.00	0.00	102.39	103.16	
16	1.70	0.00	106.55		104.39	103.63	103.96	67.80	0.00	101.30	101.27	77.60	0.00	102.55	103.10	
17	1.70	0.00	106.20		104.33	103.78	103.82	68.50	0.00	101.31	101.00	76.60	0.00	102.59	102.95	
18	1.70	0.00	105.63		104.01	103.78	103.45	60.20	0.00	101.30	100.89	67.00	0.00	102.57	102.83	
19	1.70	0.00	106.20		103.74	103.57	102.89	59.60	0.00	101.12	100.73	60.30	0.00	102.43	102.82	
20	1.70	0.00	103.54		103.27	103.18	102.18	60.20	0.00	101.00	100.47	61.30	0.00	102.41	102.58	
21	1.70	0.00	102.28		102.90	102.87	101.47	59.60	0.00	100.96	100.13	60.60	0.00	102.32	102.40	
22	1.70	0.00	101.78		102.50	102.42	100.88	61.90	0.00	100.92	100.08	61.10	0.00	102.07	102.31	
23	1.70	0.00	101.71		102.16	102.11	100.56	47.90	0.00	100.73	099.93	50.20	0.00	102.07	102.06	
24	1.70	0.00	101.68		101.99	101.90	100.23	46.10	0.00	100.57	099.87	49.00	0.00	101.90	102.00	
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT		
1	70.70	0.00	105.09	104.28	74.60	0.00	089.27	104.82	88.00	0.00	106.97	107.49	107.36	103.35		
2	55.70	0.00	105.04	103.85	73.30	0.00	088.81	104.87	81.20	0.00	106.60	107.37	107.22	103.67		
3	61.50	0.00	104.82	103.79	73.10	0.00	088.59	104.94	102.60	0.00	106.50	107.26	107.19	102.93		
4	65.60	0.00	104.75	103.61	66.50	0.00	088.94	104.50	123.90	0.00	106.48	107.06	107.28	102.87		
5	60.40	0.00	104.56	103.57	66.60	0.00	088.67	104.46	120.30	0.00	106.14	107.02	107.09	102.42		
6	68.50	0.00	104.51	103.47	71.30	0.00	089.18	104.56	159.40	0.00	105.93	106.99	107.01	101.34		
7	76.10	0.00	104.32	103.56	74.90	0.00	089.90	104.43	162.30	0.00	105.75	107.21	106.95	101.68		
8	78.00	0.00	104.29	103.65	73.40	0.00	089.34	104.59	161.80	0.00	105.75	107.02	107.03	101.78		
9	76.90	0.00	104.44	103.84	73.20	0.00	089.29	104.76	160.70	0.00	105.55	106.90	107.16	101.71		
10	77.50	0.00	104.44	103.96	74.60	0.00	089.71	105.33	161.10	0.00	105.64	106.95	107.33	102.04		
11	77.80	0.00	104.35	104.23	73.10	0.00	089.74	105.34	161.30	0.00	106.86	107.09	107.50	102.31		
12	79.60	0.00	104.48	104.37	74.50	0.00	089.52	105.46	161.30	0.00	107.86	107.44	107.66	102.97		
13	81.60	0.00	104.40	104.43	73.10	0.00	089.78	105.62	160.90	0.00	107.88	107.31	107.78	103.55		
14	82.50	0.00	103.51	104.64	72.90	0.00	088.86	105.81	149.60	0.00	108.61	107.51	107.69	103.75		
15	82.50	0.00	104.34	104.74	74.30	0.00	089.19	105.60	149.50	0.00	109.00	107.64	107.60	103.88		
16	82.80	0.00	105.47	104.52	72.50	0.00	089.23	105.76	149.90	0.00	109.34	107.61	107.51	104.20		
17	81.60	0.00	105.09	104.43	73.70	0.00	001.98	105.40	149.90	0.00	109.47	107.87	107.39	104.24		
18	79.00	0.00	104.85	104.16	72.50	0.00	103.49	105.03	149.60	0.00	109.65	107.78	107.19	104.40		
19	75.50	0.00	104.94	104.44	73.70	0.00	104.93	104.73	155.60	29.90	109.79	107.90	108.87	104.43		
20	75.20	0.00	104.79	104.04	73.00	0.00	104.84	104.58	152.60	29.90	109.59	107.56	111.29	104.43		
21	64.90	0.00	104.79	103.59	72.90	0.00	104.53	104.44	151.30	29.90	108.74	108.44	112.66	104.22		
22	64.50	0.00	104.02	103.41	74.00	0.00	104.36	104.26	149.70	29.90	107.04	109.05	112.75	104.07		
23	42.80	0.00	104.67	103.11	60.10	0.00	104.21	104.21	111.30	29.90	105.46	108.20	112.79	103.88		
24	43.30	0.00	104.92	103.18	52.70	0.00	104.04	104.27	109.10	29.90	104.97	108.54	113.29	103.88		

28 MAY 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

28 MAY 2001

HOUR	DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
	TOTAL DISCH. KCFS	SPIILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPIILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPIILL KCFS	GAS FB	%SAT TAILW.		
1	1.40	0.00	103.25	102.22	102.60	100.65	55.00	0.00	104.68	103.45	57.20	0.00	105.84	105.36		
2	1.40	0.00	103.08	102.07	102.30	100.61	55.90	0.00	104.23	103.31	56.10	0.00	105.55	105.11		
3	1.50	0.00	103.16	101.91	101.98	100.42	55.40	0.00	104.02	103.22	52.80	0.00	105.64	104.96		
4	1.40	0.00	103.07	101.83	101.72	100.34	57.00	0.00	103.95	103.16	52.70	0.00	105.49	104.87		
5	1.40	0.00	103.07	101.66	101.44	100.18	56.10	0.00	103.77	102.93	52.70	0.00	105.26	104.65		
6	1.40	0.00	103.12	101.74	101.19	100.12	55.00	0.00	103.56	102.87	53.60	0.00	105.09	104.61		
7	1.40	0.00	103.03	101.69	101.16	100.22	54.20	0.00	103.39	102.72	54.60	0.00	104.85	104.66		
8	1.50	0.00	103.28	101.92	101.11	100.28	56.30	0.00	103.38	102.68	53.80	0.00	104.68	104.63		
9	1.40	0.00	103.77	102.07	101.02	100.50	63.40	0.00	103.38	102.65	55.70	0.00	104.58	104.63		
10	1.40	0.00	104.30	102.33	101.20	100.96	67.50	0.00	103.29	102.74	61.60	0.00	104.77	104.82		
11	1.40	0.00	104.90	103.18	101.57	101.78	71.60	0.00	103.35	103.02	70.90	0.00	104.94	105.28		
12	1.40	0.00	105.55	103.79	101.94	102.53	71.60	0.00	103.38	103.09	75.90	0.00	104.97	105.22		
13	1.50	0.00	106.34	104.41	102.38	103.03	72.30	0.00	103.42	103.28	75.80	0.00	105.06	105.41		
14	1.40	0.00	106.86	104.74	103.00	103.51	73.00	0.00	103.47	103.22	74.50	0.00	105.09	105.35		
15	1.40	0.00	107.09	105.08	103.44	103.59	73.50	0.00	103.70	103.29	74.50	0.00	105.05	105.41		
16	1.40	0.00	107.01	105.13	103.59	103.79	73.20	0.00	103.85	103.33	76.00	0.00	105.12	105.28		
17	1.40	0.00	106.64	104.99	103.74	103.49	70.90	0.00	103.59	103.30	74.80	0.00	105.05	105.12		
18	1.50	0.00	106.32	104.63	103.84	103.20	69.50	0.00	103.40	103.00	75.00	0.00	104.99	104.93		
19	1.40	0.00	106.64	104.30	103.79	102.33	72.10	0.00	103.08	102.67	78.80	0.00	104.58	104.53		
20	1.40	0.00	105.04	103.75	103.47	101.50	72.10	0.00	102.85	110.66	75.90	0.00	104.57	104.24		
21	1.40	0.00	103.97	102.96	102.86	100.96	71.90	0.00	102.57	112.53	76.00	0.00	104.17	104.00		
22	1.50	0.00	103.20	102.48	102.52	100.42	71.70	0.00	102.27	114.06	76.20	0.00	103.93	103.74		
23	1.40	0.00	102.62	102.17	102.32	099.96	73.20	0.00	102.08	112.18	76.20	0.00	103.77	103.60		
24	1.40	0.00	102.33	101.93	102.02	099.68	69.10	0.00	101.86	113.59	71.40	0.00	103.51	103.36		
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
	TOTAL DISCH KCFS	SPIILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPIILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPIILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT		
1	68.90	0.00	106.53	105.66	72.80	0.00	068.10	106.67	106.00	30.00	110.38	111.04	114.54	108.38		
2	62.80	0.00	106.52	105.36	72.60	0.00	071.65	106.71	108.70	30.20	110.22	110.75	114.88	107.49		
3	56.30	0.00	106.29	105.29	64.90	0.00	066.81	106.43	112.30	30.30	109.89	110.56	114.67	106.66		
4	53.40	0.00	106.34	105.16	63.50	0.00	070.09	106.34	113.00	30.30	109.75	110.03	114.73	106.29		
5	52.70	0.00	106.26	105.19	60.70	0.00	068.18	106.39	108.80	30.30	109.45	110.12	114.61	106.13		
6	49.50	0.00	106.11	105.00	62.30	0.00	066.29	106.35	105.80	30.30	109.23	109.90	114.96	106.10		
7	52.20	0.00	106.06	104.95	60.80	0.00	067.45	106.75	96.70	0.00	109.20	109.73	114.65	105.78		
8	57.70	0.00	106.14	105.25	57.40	0.00	070.12	106.71	114.80	0.00	108.81	110.01	113.92	105.54		
9	63.90	0.00	106.31	105.68	57.20	0.00	070.09	106.94	123.30	0.00	109.12	110.19	110.99	105.73		
10	69.10	0.00	106.21	105.88	63.20	0.00	073.30	107.61	123.50	0.00	109.12	109.98	110.53	105.66		
11	74.40	0.00	106.24	106.03	68.90	0.00	074.80	107.78	130.00	0.00	109.38	110.04	110.46	105.79		
12	81.80	0.00	106.31	106.43	72.70	0.00	090.40	107.57	131.30	0.00	109.72	110.31	110.38	105.97		
13	80.30	0.00	106.49	106.35	72.90	0.00	090.45	107.64	121.60	0.00	109.74	110.32	110.47	106.30		
14	81.80	0.00	106.56	106.59	72.70	0.00	091.19	107.95	119.00	0.00	109.83	110.23	110.56	106.52		
15	82.40	0.00	106.50	106.64	74.50	0.00	090.41	107.48	124.30	0.00	110.29	110.37	110.26	106.54		
16	81.10	0.00	106.62	106.58	74.00	0.00	089.64	107.84	122.90	0.00	110.14	110.09	110.15	106.80		
17	80.90	0.00	106.55	106.49	72.80	0.00	090.53	107.27	121.20	0.00	109.98	110.00	109.73	107.00		
18	78.00	0.00	106.36	105.98	74.70	0.00	089.15	106.66	121.00	0.00	109.73	109.64	109.17	106.43		
19	78.10	0.00	106.46	105.56	73.10	0.00	089.52	106.31	126.00	0.00	109.38	109.23	108.55	105.96		
20	78.00	0.00	106.20	105.39	74.30	0.00	089.65	105.74	133.10	0.00	108.79	109.04	107.91	105.40		
21	79.20	0.00	105.91	105.17	73.10	0.00	090.64	105.65	141.30	0.00	108.28	108.62	107.72	104.93		
22	77.70	0.00	105.70	105.24	74.40	0.00	089.41	105.13	143.10	0.00	107.90	108.37	107.53	104.29		
23	80.30	0.00	105.44	104.69	73.00	0.00	090.35	104.99	70.30	0.00	107.53	108.23	107.43	104.16		
24	70.40	0.00	105.33	104.39	74.20	0.00	089.49	104.89	76.20	0.00	107.29	107.78	107.27	104.16		

27 MAY 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

27 MAY 2001

	DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.		
1	1.40	0.00	102.76	103.03	103.46	101.47	69.70	0.00	105.54	104.58	67.90	0.00	111.80	106.57		
2	1.40	0.00	102.87	102.89	103.07	101.35	54.30	0.00	105.27	104.41	54.20	0.00	111.28	106.36		
3	1.40	0.00	102.87	102.77	102.74	101.24	53.60	0.00	104.90	104.16	52.60	0.00	111.29	106.20		
4	1.50	0.00	102.84	102.60	102.36	101.06	53.70	0.00	104.90	104.10	52.60	0.00	111.02	106.25		
5	1.40	0.00	102.72	102.40	102.04	100.87	54.10	0.00	104.78	103.91	52.50	0.00	110.73	106.33		
6	1.40	0.00	102.84	102.23	101.80	100.72	53.30	0.00	104.60	103.74	50.10	0.00	110.33	106.47		
7	1.40	0.00	103.24	102.22	101.65	100.86	53.20	0.00	104.45	103.73	50.10	0.00	110.04	106.47		
8	1.40	0.00	103.85	102.41	101.66	101.24	54.30	0.00	104.43	103.73	59.10	0.00	109.20	106.47		
9	1.50	0.00	104.73	102.88	101.87	101.84	65.20	0.00	104.58	103.89	60.80	0.00	108.43	106.63		
10	1.40	0.00	105.47	103.34	102.07	102.29	69.00	0.00	105.59	104.08	63.90	0.00	107.95	106.79		
11	1.40	0.00	106.11	103.81	102.27	102.79	70.60	0.00	106.03	104.25	70.10	0.00	107.62	106.78		
12	1.40	0.00	106.34	104.04	102.77	103.51	75.00	0.00	105.56	104.43	74.60	0.00	107.57	106.85		
13	1.40	0.00	107.28	104.35	103.46	103.78	74.90	0.00	105.61	104.61	75.60	0.00	107.37	107.08		
14	1.50	0.00	107.69	104.68	103.93	104.04	73.60	0.00	105.87	104.78	81.80	0.00	107.35	107.18		
15	1.40	0.00	107.31	104.63	103.85	104.23	76.70	0.00	105.41	104.85	78.50	0.00	107.30	107.11		
16	1.40	0.00	107.04	104.26	104.28	103.83	75.80	0.00	105.36	104.92	74.90	0.00	107.60	107.19		
17	1.40	0.00	106.70	104.20	104.25	103.35	77.80	0.00	107.79	104.80	75.00	0.00	107.94	106.95		
18	1.50	0.00	106.22	103.93	104.54	103.03	80.60	0.00	107.46	104.58	80.30	0.00	108.10	106.54		
19	1.40	0.00	106.70	103.64	104.40	102.74	80.40	0.00	105.53	104.26	80.20	0.00	107.62	106.07		
20	1.40	0.00	105.28	103.22	104.07	102.03	74.10	0.00	104.30	104.01	78.70	0.00	106.81	106.10		
21	1.40	0.00	104.33	102.99	103.46	101.55	74.50	0.00	104.62	103.81	77.90	0.00	106.36	105.92		
22	1.40	0.00	103.82	102.57	103.21	101.04	74.00	0.00	104.29	103.60	78.30	0.00	106.32	105.89		
23	1.50	0.00	103.22	102.49	102.60	100.92	63.00	0.00	104.23	103.50	69.20	0.00	106.11	105.85		
24	1.40	0.00	103.35	102.29	102.78	100.88	55.80	0.00	104.67	103.55	61.00	0.00	105.99	105.55		
	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT		
1	70.60	0.00	108.61	106.41	72.30	0.00	088.90	106.73	130.80	0.00	113.10	114.20	112.08	113.02		
2	64.90	0.00	108.96	106.40	65.00	0.00	090.52	106.61	115.30	0.00	114.53	113.17	112.02	112.78		
3	54.80	0.00	108.44	106.36	64.40	0.00	091.15	106.59	115.90	0.00	113.71	114.16	111.87	112.63		
4	54.40	0.00	107.76	106.28	58.80	0.00	091.14	106.59	116.50	0.00	114.04	114.29	111.53	112.50		
5	51.10	0.00	108.05	106.14	59.20	0.00	102.64	106.47	116.90	0.00	113.91	113.50	111.38	112.02		
6	48.70	0.00	107.48	105.94	50.20	0.00	102.25	106.59	117.00	0.00	113.34	113.98	111.45	111.63		
7	48.40	0.00	107.01	106.07	51.20	0.00	101.00	106.76	117.30	0.00	113.13	114.51	111.56	111.20		
8	58.80	0.00	107.86	106.73	49.90	0.00	101.14	107.22	120.80	0.00	111.25	115.18	111.81	110.92		
9	64.70	0.00	108.01	106.76	54.30	0.00	103.16	107.47	122.10	0.00	113.54	115.32	111.96	110.95		
10	70.50	0.00	107.86	106.82	65.60	0.00	102.90	107.77	122.30	0.00	113.34	114.98	112.29	111.16		
11	71.00	0.00	107.79	107.18	73.30	0.00	102.65	107.77	118.20	0.00	114.06	115.29	112.35	111.42		
12	77.80	0.00	107.82	107.26	74.10	0.00	102.40	108.07	119.40	0.00	115.45	114.98	112.16	111.93		
13	77.50	0.00	108.18	107.39	72.60	0.00	101.97	108.14	138.30	0.00	115.90	115.03	112.46	112.37		
14	77.60	0.00	109.07	107.69	73.20	0.00	103.85	108.57	143.90	0.00	115.94	114.80	113.59	112.64		
15	80.70	0.00	108.46	107.79	74.80	0.00	103.39	108.35	144.00	0.00	115.80	113.57	113.69	112.91		
16	79.00	0.00	107.30	107.84	73.30	0.00	103.27	108.31	144.40	0.00	115.77	113.10	112.85	113.09		
17	80.40	0.00	107.36	107.19	74.50	0.00	102.80	107.41	137.90	0.00	115.00	112.89	111.90	112.55		
18	83.20	0.00	107.37	106.57	73.30	0.00	102.19	107.01	122.70	0.00	113.13	112.41	111.17	111.93		
19	82.70	0.00	107.25	106.44	73.20	0.00	102.65	106.90	113.00	28.80	112.53	112.38	111.10	111.32		
20	83.30	0.00	106.93	106.31	74.80	0.00	100.84	106.84	113.80	29.90	112.24	111.78	113.99	110.62		
21	82.10	0.00	107.53	106.14	73.20	0.00	102.34	107.11	114.80	29.90	111.96	111.65	115.06	110.14		
22	82.40	0.00	107.53	106.08	73.00	0.00	100.45	106.77	111.20	29.90	111.78	111.56	115.12	109.81		
23	77.40	0.00	107.47	105.84	75.50	0.00	098.61	106.68	110.10	29.90	110.07	111.19	114.71	109.37		
24	77.60	0.00	107.28	105.92	74.30	0.00	102.28	106.63	108.60	29.90	110.34	110.83	114.59	109.37		

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WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

26 MAY 2001

	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.40	0.00	101.81	102.83	103.23	101.34	53.80	0.00	106.12	104.36	54.40	0.00	105.67	104.98
2	1.40	0.00	101.78	102.69	102.96	101.21	53.90	0.00	105.87	104.07	53.10	0.00	105.99	105.02
3	1.40	0.00	101.96	102.66	102.50	101.08	62.10	0.00	105.60	104.12	54.50	0.00	105.72	105.02
4	1.40	0.00	101.98	102.62	102.27	100.97	63.50	0.00	105.86	103.97	54.60	0.00	106.39	105.02
5	1.50	0.00	101.98	102.45	102.03	100.84	66.40	0.00	105.74	103.97	53.90	0.00	105.97	104.97
6	1.40	0.00	101.83	102.42	101.73	100.67	67.10	0.00	104.78	104.05	56.00	0.00	106.30	104.94
7	1.40	0.00	102.24	102.25	101.57	100.77	86.30	0.00	104.48	104.23	71.50	0.00	107.72	104.99
8	1.40	0.00	102.81	102.42	101.63	101.15	82.30	0.00	104.42	104.26	78.20	0.00	107.58	105.19
9	1.40	0.00	103.50	102.73	101.77	101.62	82.40	0.00	104.58	000.00	84.40	0.00	108.33	105.48
10	1.50	0.00	104.34	103.24	102.21	102.23	83.80	0.00	104.91	104.21	84.60	0.00	108.13	105.99
11	1.40	0.00	105.10	103.76	102.69	102.82	81.60	0.00	105.40	104.26	83.60	0.00	109.01	106.03
12	1.40	0.00	105.90	104.27	103.09	103.37	81.00	0.00	105.71	104.42	83.90	0.00	110.32	106.37
13	1.40	0.00	106.44	104.88	103.74	103.94	82.30	0.00	106.94	104.59	83.40	0.00	108.25	106.75
14	1.50	0.00	106.95	105.19	104.20	104.30	81.90	0.00	106.62	104.71	81.90	0.00	107.13	106.60
15	1.40	0.00	107.18	105.43	104.79	104.58	83.40	0.00	106.42	104.76	84.00	0.00	107.26	106.54
16	1.40	0.00	106.96	105.56	104.94	104.66	82.20	0.00	107.34	105.03	80.60	0.00	107.59	106.76
17	1.40	0.00	106.77	105.49	105.21	104.61	81.40	0.00	108.39	105.13	78.40	0.00	110.27	107.01
18	1.40	0.00	106.44	105.38	105.26	104.27	76.90	0.00	106.02	105.08	91.50	0.00	110.92	107.07
19	1.50	0.00	106.77	105.09	105.05	103.77	77.60	0.00	106.33	104.97	91.70	0.00	111.01	106.88
20	1.40	0.00	104.69	104.66	104.77	103.23	77.80	0.00	105.95	104.98	88.60	0.00	109.50	106.76
21	1.40	0.00	103.49	104.20	104.40	102.64	75.60	0.00	106.63	104.97	88.10	0.00	111.80	106.70
22	1.40	0.00	102.91	103.73	104.17	102.31	76.40	0.00	106.02	105.09	88.50	0.00	109.15	106.67
23	1.40	0.00	102.76	103.45	103.90	102.04	75.90	0.00	105.94	104.93	72.70	0.00	108.47	106.66
24	1.50	0.00	102.76	103.27	103.72	101.77	77.10	0.00	105.65	104.83	67.60	0.00	111.47	106.54
	LOWER MONUMENTAL			ICE HARBOR			MCNARY			PASCO				
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	56.50	0.00	106.34	105.43	50.80	0.00	103.29	105.37	90.00	30.20	115.14	113.94	115.32	113.08
2	55.60	0.00	106.18	105.26	48.80	0.00	103.43	105.33	89.20	30.30	113.71	111.19	115.69	113.01
3	52.30	0.00	106.50	105.17	48.50	0.00	103.01	105.64	88.40	30.40	113.17	112.74	115.57	112.90
4	46.90	0.00	106.47	105.26	43.30	0.00	102.82	105.40	91.60	30.60	112.40	113.33	115.58	112.90
5	44.10	0.00	106.21	105.34	38.10	0.00	102.23	105.40	89.20	30.60	111.99	112.95	115.45	112.90
6	49.40	0.00	107.40	105.40	38.00	0.00	102.12	105.52	100.30	30.60	111.75	113.15	115.45	112.80
7	61.00	0.00	107.42	105.45	38.70	0.00	102.11	105.68	124.10	0.00	111.04	112.92	115.42	112.65
8	76.10	0.00	107.06	105.76	58.00	0.00	102.23	106.09	127.60	0.00	112.22	112.50	112.64	112.80
9	80.20	0.00	106.52	105.81	80.00	0.00	102.26	106.28	156.20	0.00	111.35	111.87	111.21	112.90
10	93.90	0.00	106.72	106.03	91.50	0.00	101.79	106.65	167.70	0.00	113.75	112.62	110.89	113.34
11	92.30	0.00	107.59	106.53	94.40	0.00	104.08	106.50	172.50	0.00	113.06	113.11	110.65	113.60
12	91.90	0.00	106.88	106.64	92.50	0.00	102.33	106.87	172.60	0.00	115.42	112.89	110.95	113.58
13	85.10	0.00	107.24	106.77	92.30	0.00	103.62	106.97	172.10	0.00	117.64	112.23	110.95	113.71
14	93.30	0.00	107.64	106.96	92.80	0.00	102.93	107.49	172.10	0.00	118.82	112.00	111.07	113.82
15	97.30	0.00	107.88	107.21	94.40	0.00	092.47	107.32	172.30	0.00	120.05	111.69	111.29	114.24
16	90.40	0.00	108.27	107.08	94.20	0.00	087.11	107.70	172.40	0.00	120.48	111.90	111.57	114.38
17	89.70	0.00	108.79	107.08	94.40	0.00	088.00	107.40	172.70	0.00	120.23	111.75	111.78	114.47
18	91.20	0.00	107.18	107.03	92.70	0.00	088.61	107.15	172.30	0.00	120.58	112.40	111.77	114.64
19	92.50	0.00	107.01	106.95	92.80	0.00	090.03	106.98	172.00	0.00	121.01	113.16	111.83	114.62
20	92.90	0.00	107.58	106.94	94.30	0.00	091.25	106.86	167.00	0.00	120.20	113.71	111.95	114.39
21	91.30	0.00	108.61	106.58	92.70	0.00	089.73	106.96	166.20	0.00	119.55	114.06	111.95	114.17
22	91.60	0.00	109.11	106.44	92.50	0.00	091.19	106.62	165.40	0.00	118.27	114.25	111.74	113.94
23	91.00	0.00	107.25	106.59	79.80	0.00	089.03	106.82	149.30	0.00	117.24	115.13	111.81	113.53
24	80.30	0.00	109.06	106.59	72.70	0.00	088.77	106.79	134.80	0.00	115.88	116.54	111.90	113.53

25 MAY 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

25 MAY 2001

	DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	
1	1.50	0.00	102.27	102.64	103.29	101.35	53.50	0.00	107.75	104.44	47.90	0.00	105.30	104.64	
2	1.40	0.00	102.26	102.51	103.01	101.19	48.70	0.00	107.48	104.55	45.60	0.00	105.15	104.46	
3	1.40	0.00	102.18	102.33	102.69	100.85	41.40	0.00	107.17	104.46	40.50	0.00	104.69	104.26	
4	1.40	0.00	102.14	102.28	102.30	100.70	50.40	0.00	106.54	104.60	42.30	0.00	104.52	104.23	
5	1.40	0.00	101.96	102.26	101.83	100.52	54.90	0.00	106.65	105.05	47.90	0.00	104.64	104.07	
6	1.50	0.00	101.79	102.03	101.59	100.44	67.10	0.00	106.74	104.75	60.60	0.00	104.59	104.21	
7	1.40	0.00	102.01	102.02	101.48	100.56	78.10	0.00	106.59	104.63	72.90	0.00	104.81	104.29	
8	1.40	0.00	102.43	102.19	101.53	101.09	79.40	0.00	106.31	104.47	84.20	0.00	105.25	104.44	
9	1.40	0.00	103.05	102.48	101.74	101.48	78.00	0.00	105.90	104.58	82.10	0.00	105.26	104.43	
10	1.50	0.00	103.89	102.90	101.92	102.06	79.40	0.00	107.95	000.00	85.00	0.00	104.34	104.41	
11	1.40	0.00	104.64	103.54	102.17	102.65	78.30	0.00	107.05	104.12	81.80	0.00	104.22	104.48	
12	1.40	0.00	105.51	104.00	102.89	103.27	77.70	0.00	106.89	104.34	81.30	0.00	104.56	104.52	
13	1.40	0.00	106.13	104.33	103.31	103.73	74.90	0.00	107.35	104.50	82.70	0.00	104.63	104.76	
14	1.40	0.00	106.61	104.67	103.94	104.22	74.70	0.00	106.45	104.72	79.80	0.00	104.74	104.80	
15	1.50	0.00	106.55	105.00	104.43	104.43	75.90	0.00	105.90	104.90	80.60	0.00	105.05	104.90	
16	1.40	0.00	106.73	105.19	104.80	104.64	75.20	0.00	107.36	105.02	78.90	0.00	104.85	105.25	
17	1.40	0.00	106.66	105.13	105.03	104.42	73.90	0.00	108.33	105.05	78.70	0.00	104.77	105.17	
18	1.40	0.00	106.28	104.91	105.13	104.20	73.80	0.00	107.81	105.11	76.00	0.00	104.82	105.21	
19	1.40	0.00	106.66	104.63	104.93	103.68	74.00	0.00	108.26	105.15	77.40	0.00	105.41	105.12	
20	1.50	0.00	104.33	104.40	104.74	103.12	75.50	0.00	106.77	105.14	78.40	0.00	105.41	104.97	
21	1.40	0.00	103.03	103.87	104.29	102.55	81.60	0.00	108.35	104.97	76.20	0.00	105.76	104.97	
22	1.40	0.00	102.56	103.59	104.12	102.09	82.50	0.00	106.97	105.04	70.30	0.00	105.82	104.93	
23	1.40	0.00	102.18	103.15	103.90	101.84	72.90	0.00	106.55	104.90	67.60	0.00	105.97	104.89	
24	1.50	0.00	101.98	103.00	103.56	101.61	55.20	0.00	106.25	*****	55.40	0.00	105.81	104.98	
	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT	
1	48.20	0.00	105.64	104.13	51.30	0.00	099.91	104.46	113.00	0.00	113.52	109.35	108.22	111.82	
2	44.70	0.00	105.58	104.05	41.60	0.00	100.41	104.67	101.90	0.00	113.07	108.79	108.03	111.57	
3	38.40	0.00	105.03	103.82	34.80	0.00	100.20	104.33	82.20	0.00	112.20	108.43	107.84	111.07	
4	35.20	0.00	104.97	103.67	33.60	0.00	099.26	104.33	92.60	0.00	112.41	108.99	107.85	110.83	
5	39.70	0.00	104.99	103.72	35.30	0.00	098.97	104.31	116.10	0.00	112.06	108.99	107.80	110.51	
6	42.40	0.00	105.63	103.68	34.00	0.00	099.22	104.31	131.00	0.00	111.49	110.26	107.89	110.34	
7	61.80	0.00	105.86	104.09	47.80	0.00	099.17	104.84	159.20	0.00	111.63	111.29	108.12	110.33	
8	79.70	0.00	105.47	104.34	66.80	0.00	100.50	104.83	172.80	0.00	109.47	111.29	108.24	110.42	
9	90.30	0.00	105.63	104.51	83.70	0.00	100.92	105.16	174.00	0.00	107.32	112.45	108.52	110.60	
10	92.00	0.00	105.87	104.86	93.40	0.00	099.47	105.47	174.30	0.00	108.44	112.23	108.99	110.74	
11	92.00	0.00	105.66	105.10	92.40	0.00	099.87	105.73	174.20	0.00	109.56	111.57	109.45	110.90	
12	94.70	0.00	105.70	105.35	91.90	0.00	099.96	105.64	173.80	0.00	108.16	110.54	109.50	110.86	
13	89.90	0.00	105.65	105.59	88.50	0.00	100.05	105.84	173.40	0.00	112.51	111.82	109.49	111.18	
14	91.50	0.00	105.28	105.99	88.30	0.00	099.97	106.32	173.30	0.00	114.85	112.59	109.68	111.57	
15	89.60	0.00	106.60	105.95	91.70	0.00	099.93	106.16	173.30	0.00	116.50	113.24	110.05	111.92	
16	89.40	0.00	105.99	106.16	88.60	0.00	100.27	106.37	173.60	0.00	116.60	111.87	110.39	112.16	
17	87.60	0.00	107.00	106.14	88.40	0.00	100.84	106.02	173.50	0.00	118.50	111.33	110.31	112.36	
18	88.00	0.00	107.18	106.05	88.40	0.00	101.55	105.87	174.00	.50	118.60	111.07	110.28	112.82	
19	90.60	0.00	107.33	105.94	88.10	0.00	101.08	105.69	203.20	29.80	119.71	112.33	111.54	113.01	
20	77.80	0.00	106.96	105.66	89.20	0.00	103.23	105.57	203.60	30.00	119.01	111.81	113.54	113.17	
21	77.60	0.00	107.21	105.49	80.70	0.00	103.05	105.54	203.60	30.10	116.17	111.90	114.33	113.28	
22	70.50	0.00	107.27	105.50	78.10	0.00	104.08	105.50	188.00	30.10	115.99	111.57	114.58	113.38	
23	66.90	0.00	107.16	105.40	71.10	0.00	103.84	105.78	139.10	30.20	116.12	114.43	114.71	113.39	
24	56.70	0.00	106.49	105.35	59.20	0.00	103.17	105.95	93.60	30.20	115.57	115.18	114.92	113.39	

24 MAY 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

24 MAY 2001

HOUR	DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.		
1	1.50	0.00	102.97	102.78	102.83	101.32	66.50	0.00	106.12	104.54	64.10	0.00	107.46	104.73		
2	1.40	0.00	102.94	102.76	102.48	101.19	35.30	0.00	105.37	104.34	32.80	0.00	106.35	104.68		
3	1.40	0.00	102.87	102.72	102.09	101.11	35.40	0.00	105.26	104.08	31.30	0.00	105.44	104.60		
4	1.40	0.00	103.16	102.56	102.07	100.89	34.60	0.00	105.33	104.07	31.30	0.00	105.14	104.44		
5	1.40	0.00	103.19	102.37	101.63	100.54	52.30	0.00	105.73	104.26	31.20	0.00	104.67	104.25		
6	1.50	0.00	103.07	102.18	101.36	100.35	52.90	0.00	105.56	104.34	33.00	0.00	105.25	104.22		
7	1.50	0.00	103.18	102.30	101.24	100.55	51.70	0.00	105.36	104.44	40.20	0.00	104.60	104.55		
8	1.40	0.00	103.60	102.41	101.33	101.08	57.30	0.00	105.84	104.30	61.00	0.00	104.32	104.58		
9	1.40	0.00	104.01	102.72	101.51	101.78	53.80	0.00	106.29	104.45	57.40	0.00	104.32	104.46		
10	1.50	0.00	104.93	103.35	101.86	102.34	59.20	0.00	106.84	104.75	64.00	0.00	103.96	104.94		
11	1.50	0.00	105.80	103.96	102.34	103.07	61.90	0.00	106.51	104.90	71.00	0.00	103.96	104.73		
12	1.40	0.00	106.42	104.44	102.76	103.67	68.90	0.00	106.41	104.94	67.40	0.00	103.62	104.64		
13	1.40	0.00	107.05	104.92	103.26	104.26	76.30	0.00	106.47	104.98	83.50	0.00	103.95	104.69		
14	1.40	0.00	107.63	105.22	103.84	104.67	78.40	0.00	105.41	UNDEF	80.90	0.00	104.25	104.73		
15	1.40	0.00	107.68	105.40	104.45	104.90	79.00	0.00	105.33	000.00	74.50	0.00	104.29	104.78		
16	1.50	0.00	107.47	105.58	104.76	105.11	81.70	0.00	105.91	104.91	84.00	0.00	104.52	104.92		
17	1.40	0.00	107.12	105.54	104.98	105.01	85.60	0.00	106.82	104.96	86.50	0.00	104.97	104.97		
18	1.40	0.00	106.46	105.20	105.22	000.00	84.90	0.00	107.67	105.16	82.80	0.00	105.53	104.97		
19	1.40	0.00	107.12	104.89	105.05	103.95	81.90	0.00	108.09	104.98	83.70	0.00	105.11	104.94		
20	1.50	0.00	104.80	104.27	104.70	103.22	81.20	0.00	109.00	105.02	83.50	0.00	105.11	104.82		
21	1.40	0.00	103.41	103.80	104.28	102.69	72.70	0.00	108.77	104.87	80.60	0.00	105.58	104.73		
22	1.40	0.00	102.78	103.49	103.99	102.15	72.80	0.00	108.17	005.61	82.30	0.00	105.57	104.79		
23	1.40	0.00	102.48	103.13	103.73	101.83	61.50	0.00	108.18	000.00	58.70	0.00	105.43	104.85		
24	1.40	0.00	102.32	102.82	103.64	101.51	54.50	0.00	107.25	104.47	52.70	0.00	105.33	104.65		

HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO	
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT		
1	63.20	0.00	105.46	103.85	57.80	0.00	102.90	103.76	168.30	0.00	111.02	109.01	107.04	112.58
2	50.30	0.00	104.49	103.68	43.00	0.00	102.36	103.76	134.80	0.00	110.25	108.39	106.88	112.40
3	43.30	0.00	103.88	103.51	41.70	0.00	102.07	103.87	142.20	0.00	109.90	107.72	106.84	111.87
4	27.90	0.00	104.10	103.01	31.30	0.00	102.29	103.72	120.60	0.00	109.53	107.80	106.77	111.51
5	26.60	0.00	104.08	102.94	30.50	0.00	101.99	103.50	122.10	0.00	109.25	107.87	106.83	111.33
6	26.90	0.00	104.05	103.02	32.70	0.00	101.56	103.60	109.60	0.00	107.46	108.59	107.05	111.14
7	28.00	0.00	103.86	103.11	31.00	0.00	101.36	103.86	136.10	0.00	106.74	109.00	107.39	110.95
8	42.50	0.00	103.97	103.65	40.40	0.00	101.43	104.41	171.50	0.00	106.98	109.19	107.60	111.04
9	57.70	0.00	104.25	103.94	40.30	0.00	101.98	104.41	174.40	0.00	107.33	108.69	107.78	111.95
10	70.10	0.00	104.51	104.24	58.00	0.00	102.66	105.12	174.60	0.00	107.76	108.84	108.10	112.44
11	75.40	0.00	104.54	104.45	74.10	0.00	102.42	105.28	167.20	0.00	107.15	108.72	108.00	112.94
12	77.20	0.00	104.75	104.97	81.00	0.00	103.52	105.17	161.80	0.00	107.10	108.69	108.20	113.55
13	80.60	0.00	104.54	104.80	91.50	0.00	104.00	105.16	161.60	0.00	110.62	109.28	108.41	113.74
14	79.70	0.00	104.84	104.87	85.40	0.00	103.00	105.60	161.80	0.00	114.66	108.98	108.36	113.97
15	82.80	0.00	105.33	105.09	87.80	0.00	102.77	105.43	161.80	0.00	115.67	108.70	108.45	114.04
16	94.10	0.00	105.38	105.20	84.80	0.00	102.89	105.64	163.00	0.00	116.02	108.98	108.48	114.13
17	89.50	0.00	105.96	105.15	88.00	0.00	102.94	105.45	166.40	0.00	116.64	109.21	108.72	113.81
18	92.40	0.00	106.17	105.00	92.80	0.00	102.96	105.08	166.40	0.00	117.49	109.36	108.93	113.72
19	94.20	0.00	106.19	105.00	91.60	0.00	103.24	104.92	166.10	0.00	114.14	110.03	108.77	113.71
20	94.20	0.00	106.01	104.69	91.40	0.00	101.13	104.65	167.30	0.00	116.66	109.87	108.70	113.56
21	94.60	0.00	106.53	104.71	93.90	0.00	101.02	104.58	171.30	0.00	116.58	110.76	108.81	113.36
22	87.60	0.00	106.39	104.38	93.00	0.00	102.65	104.39	170.20	0.00	114.61	110.22	108.96	112.95
23	71.50	0.00	105.81	104.33	80.50	0.00	100.46	104.46	139.00	0.00	114.22	109.75	108.64	112.54
24	72.20	0.00	105.45	104.35	65.10	0.00	100.11	104.53	116.60	0.00	113.59	109.41	108.42	112.54

23 MAY 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

23 MAY 2001

HOUR	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.50	0.00	102.99	102.93	102.73	101.58	55.80	0.00	105.70	103.99	38.90	0.00	109.35	103.29
2	1.40	0.00	102.95	102.79	102.47	101.28	35.80	0.00	105.42	103.70	39.00	0.00	108.78	103.26
3	1.40	0.00	102.91	102.56	102.13	101.02	34.00	0.00	105.28	103.69	39.00	0.00	107.32	103.26
4	1.40	0.00	103.03	102.60	101.67	100.71	32.00	0.00	105.38	103.69	40.60	0.00	106.37	103.35
5	1.40	0.00	102.98	102.60	101.45	100.57	32.70	0.00	105.21	103.89	39.10	0.00	106.32	103.58
6	1.50	0.00	103.11	102.33	101.17	100.36	54.70	0.00	104.90	104.01	39.10	0.00	106.05	103.71
7	1.40	0.00	103.33	102.48	101.10	100.48	62.90	0.00	104.87	103.98	42.10	0.00	105.60	103.80
8	1.40	0.00	103.87	102.64	101.25	100.95	69.20	0.00	104.72	103.94	63.40	0.00	105.18	104.10
9	1.40	0.00	104.61	102.88	101.52	101.69	70.80	0.00	104.75	104.26	71.20	0.00	104.40	104.13
10	1.50	0.00	105.49	103.36	101.64	102.42	70.70	0.00	105.13	104.39	71.60	0.00	104.04	103.99
11	1.50	0.00	106.23	104.00	102.28	103.24	70.40	0.00	105.46	104.55	71.70	0.00	104.86	104.02
12	1.40	0.00	107.00	104.48	102.79	104.00	70.50	0.00	105.50	104.72	71.90	0.00	104.51	104.32
13	1.40	0.00	107.66	105.00	103.36	104.80	72.50	0.00	106.54	104.94	73.50	0.00	104.97	104.54
14	1.40	0.00	108.00	105.40	103.83	105.31	72.10	0.00	107.31	105.04	75.00	0.00	109.12	104.77
15	1.40	0.00	108.23	105.80	104.31	105.66	71.00	0.00	107.67	105.11	75.80	0.00	105.96	105.00
16	1.50	0.00	108.20	105.87	104.72	105.95	71.00	0.00	108.22	105.36	74.60	0.00	106.21	104.95
17	1.40	0.00	107.83	106.00	104.74	105.82	70.60	0.00	109.63	105.43	79.50	0.00	107.19	105.01
18	1.50	0.00	107.08	105.62	104.84	105.46	70.50	0.00	106.11	105.34	80.10	0.00	106.58	105.06
19	1.40	0.00	107.83	105.21	104.70	104.82	71.30	0.00	107.76	000.00	80.00	0.00	105.38	105.08
20	1.40	0.00	105.08	104.82	104.31	104.02	69.90	0.00	108.21	105.10	81.80	0.00	105.52	105.11
21	1.50	0.00	104.00	104.29	103.89	103.13	70.00	0.00	108.25	104.89	81.80	0.00	106.96	105.02
22	1.40	0.00	103.52	103.79	103.62	102.52	66.50	0.00	106.58	104.84	82.80	0.00	110.02	105.26
23	1.40	0.00	103.19	103.54	103.41	102.08	66.10	0.00	106.83	104.82	72.10	0.00	110.03	105.07
24	1.40	0.00	103.15	103.12	103.12	101.65	66.60	0.00	106.51	104.83	65.30	0.00	107.02	104.97
HOUR	LOWER MONUMENTAL			ICE HARBOR			MCNARY			PASCO				
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT		
1	29.70	0.00	105.18 102.84	32.40	0.00	103.40 103.70	108.90	0.00	110.33	108.70	107.70	110.09		
2	37.70	0.00	104.88 102.65	28.90	0.00	103.46 103.42	106.10	0.00	109.73	109.19	107.36	109.91		
3	33.50	0.00	105.52 102.61	29.40	0.00	102.53 103.28	108.90	0.00	109.44	108.68	107.23	109.75		
4	29.30	0.00	105.03 102.33	22.70	0.00	102.84 103.80	107.20	0.00	109.28	108.37	106.93	109.88		
5	29.40	0.00	104.81 102.27	23.90	0.00	102.64 103.23	105.70	0.00	106.83	108.22	106.89	109.82		
6	36.90	0.00	104.51 102.14	22.50	0.00	102.36 103.21	139.20	0.00	107.23	108.45	107.02	110.08		
7	48.30	0.00	103.68 102.47	29.50	0.00	101.91 103.45	166.40	0.00	107.44	107.60	107.06	110.14		
8	64.60	0.00	104.23 102.84	49.20	0.00	102.28 104.35	173.00	0.00	107.87	108.26	107.19	110.52		
9	71.20	0.00	104.87 103.17	66.80	0.00	103.69 104.53	171.10	0.00	109.07	108.26	107.19	111.04		
10	74.70	0.00	104.23 103.49	79.90	0.00	103.35 104.85	173.40	0.00	109.20	108.12	107.35	111.47		
11	72.90	0.00	103.60 103.85	67.10	0.00	101.78 104.96	161.50	0.00	110.50	108.33	107.69	112.01		
12	73.70	0.00	103.78 104.07	69.10	0.00	103.70 105.05	160.50	0.00	109.67	111.02	107.75	112.52		
13	75.50	0.00	104.02 104.25	82.10	0.00	102.85 105.37	160.00	0.00	110.25	000.00	107.99	113.01		
14	79.80	0.00	105.86 104.38	81.80	0.00	102.56 105.83	160.70	0.00	108.34	111.32	108.23	113.23		
15	80.20	0.00	105.65 104.79	83.20	0.00	103.44 105.40	161.20	0.00	108.14	113.04	108.84	113.62		
16	82.10	0.00	106.15 105.17	83.60	0.00	104.47 105.33	171.70	0.00	107.50	111.94	108.75	113.71		
17	86.60	0.00	106.06 104.82	90.20	0.00	105.56 105.21	172.50	0.00	107.20	112.55	108.72	113.89		
18	87.30	0.00	106.13 104.70	92.40	0.00	104.29 104.78	172.30	0.00	106.96	112.88	109.06	114.22		
19	87.20	0.00	106.29 104.67	92.60	0.00	103.83 104.59	172.20	0.00	107.26	112.36	109.34	114.40		
20	85.50	0.00	105.87 104.33	91.30	0.00	104.84 104.40	172.20	0.00	112.58	114.34	109.03	114.38		
21	89.40	0.00	106.54 104.17	92.70	0.00	103.95 104.19	172.10	0.00	112.97	113.89	108.80	114.34		
22	99.00	0.00	106.51 104.00	93.40	0.00	103.73 104.00	172.30	0.00	112.16	112.13	108.31	113.62		
23	85.00	0.00	107.09 103.84	74.60	0.00	104.49 104.13	172.70	0.00	111.76	110.15	107.88	113.31		
24	71.10	0.00	105.45 103.97	57.90	0.00	103.31 103.90	171.30	0.00	111.35	109.19	107.51	113.31		

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WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

22 MAY 2001

	DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE				
HOUR :	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	:	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1 :	1.40	0.00	103.49	:	103.03	102.55	101.34	:	54.80	0.00	104.74	103.16	:	43.00	0.00	106.39	102.49
2 :	1.40	0.00	103.62	:	102.85	102.36	101.04	:	44.30	0.00	104.34	103.07	:	42.90	0.00	105.76	102.35
3 :	1.40	0.00	103.62	:	102.72	102.09	100.76	:	36.80	0.00	104.08	103.07	:	41.30	0.00	105.37	102.36
4 :	1.40	0.00	103.58	:	102.61	101.83	100.63	:	34.70	0.00	103.95	102.89	:	34.10	0.00	105.12	102.55
5 :	1.40	0.00	103.59	:	102.51	101.58	100.50	:	29.00	0.00	103.95	102.93	:	30.10	0.00	104.86	102.53
6 :	1.40	0.00	103.56	:	102.33	101.24	100.36	:	45.30	0.00	104.08	103.35	:	29.30	0.00	104.69	102.37
7 :	1.40	0.00	103.94	:	102.33	101.09	100.47	:	62.60	0.00	103.96	103.69	:	31.40	0.00	104.42	102.36
8 :	1.40	0.00	104.67	:	102.44	101.34	101.03	:	65.80	0.00	103.96	103.31	:	60.00	0.00	104.02	102.77
9 :	1.40	0.00	105.41	:	102.77	101.63	101.74	:	78.80	0.00	104.15	103.47	:	68.40	0.00	103.41	102.69
10 :	1.40	0.00	106.35	:	103.32	102.07	102.60	:	77.20	0.00	103.88	?UNDEF	:	78.30	0.00	103.18	102.75
11 :	1.40	0.00	107.39	:	103.94	102.62	103.51	:	76.80	0.00	104.51	000.00	:	80.50	0.00	102.98	102.83
12 :	1.40	0.00	108.27	:	104.54	103.13	104.28	:	74.60	0.00	104.04	103.81	:	82.90	0.00	102.89	102.99
13 :	1.50	0.00	108.93	:	105.06	103.55	105.02	:	70.90	0.00	104.93	104.00	:	79.70	0.00	103.24	103.22
14 :	1.50	0.00	108.52	:	105.48	104.25	105.72	:	70.60	0.00	106.51	104.04	:	77.80	0.00	103.31	103.44
15 :	1.50	0.00	107.85	:	105.88	104.61	106.21	:	73.90	0.00	107.02	*****	:	76.20	0.00	103.41	103.51
16 :	1.40	0.00	107.25	:	106.00	104.98	106.47	:	67.90	0.00	107.12	104.58	:	77.00	0.00	103.24	103.47
17 :	1.40	0.00	106.90	:	106.04	104.91	106.38	:	66.40	0.00	107.45	104.63	:	72.40	0.00	104.26	103.65
18 :	1.40	0.00	106.42	:	105.74	104.82	106.21	:	64.40	0.00	107.23	078.68	:	71.70	0.00	108.65	103.88
19 :	1.40	0.00	106.90	:	105.36	104.77	105.52	:	57.60	0.00	105.65	104.64	:	68.30	0.00	111.87	104.10
20 :	1.50	0.00	104.69	:	104.86	104.36	104.63	:	57.90	0.00	104.98	104.34	:	68.30	0.00	110.96	103.96
21 :	1.40	0.00	103.65	:	104.28	103.87	103.75	:	57.10	0.00	105.07	104.02	:	59.00	0.00	110.93	104.08
22 :	1.40	0.00	103.08	:	103.84	103.57	102.91	:	56.50	0.00	106.02	103.89	:	56.50	0.00	111.60	103.76
23 :	1.40	0.00	102.91	:	103.38	103.20	102.45	:	60.00	0.00	105.58	103.89	:	40.40	0.00	109.15	103.76
24 :	1.40	0.00	102.86	:	103.30	102.97	102.04	:	56.40	0.00	106.14	104.00	:	39.60	0.00	109.36	103.45

	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO				
HOUR :	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	:	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	:	GAS % SAT
1 :	42.40	0.00	103.70	101.30	:	44.10	0.00	102.86	102.63	:	105.40	0.00	109.20	112.36	105.92	:	108.38
2 :	41.50	0.00	102.35	101.21	:	41.90	0.00	102.32	102.36	:	101.10	0.00	108.78	111.57	105.89	:	108.38
3 :	43.10	0.00	103.02	101.37	:	41.80	0.00	101.79	102.37	:	98.80	0.00	108.27	111.51	105.74	:	108.39
4 :	28.50	0.00	103.15	101.12	:	29.70	0.00	101.54	102.36	:	92.10	0.00	110.64	110.68	105.61	:	108.42
5 :	28.80	0.00	103.06	101.06	:	28.90	0.00	101.53	102.23	:	81.60	0.00	111.20	110.93	105.42	:	108.30
6 :	33.90	0.00	103.03	101.02	:	30.50	0.00	101.49	102.35	:	95.40	0.00	111.58	107.99	105.37	:	107.99
7 :	37.70	0.00	102.87	101.25	:	29.50	0.00	101.38	102.48	:	155.40	0.00	110.71	110.46	105.60	:	107.83
8 :	39.50	0.00	103.02	101.55	:	29.30	0.00	101.36	103.00	:	161.90	0.00	106.27	108.64	105.98	:	107.79
9 :	62.50	0.00	102.27	102.34	:	35.20	0.00	101.25	103.89	:	161.80	0.00	109.37	107.96	106.30	:	107.98
10 :	77.70	0.00	102.33	102.30	:	53.00	0.00	101.31	104.37	:	163.00	0.00	110.15	111.83	106.46	:	108.30
11 :	82.50	0.00	103.85	102.56	:	67.80	0.00	101.19	104.65	:	173.90	0.00	103.96	112.92	106.79	:	108.77
12 :	81.40	0.00	102.57	102.83	:	82.50	0.00	101.41	104.28	:	174.20	0.00	115.51	111.48	107.30	:	108.93
13 :	81.70	0.00	102.69	102.99	:	83.60	0.00	101.47	104.37	:	162.30	0.00	114.17	111.36	107.52	:	109.33
14 :	81.90	0.00	103.14	103.28	:	83.70	0.00	103.60	104.72	:	162.10	0.00	108.13	113.98	107.89	:	109.69
15 :	83.80	0.00	104.31	103.51	:	86.80	0.00	104.22	104.61	:	161.70	0.00	106.92	114.78	108.57	:	109.94
16 :	81.90	0.00	104.66	103.53	:	83.80	0.00	102.77	104.64	:	161.10	0.00	105.84	114.62	109.09	:	110.24
17 :	82.00	0.00	104.22	103.64	:	83.80	0.00	105.07	104.74	:	172.40	0.00	105.75	114.18	109.13	:	110.44
18 :	83.40	0.00	103.98	103.56	:	83.90	0.00	105.47	104.27	:	173.20	0.00	108.77	110.89	109.00	:	110.64
19 :	79.30	0.00	104.09	103.62	:	83.90	0.00	107.19	104.09	:	173.10	0.00	114.60	110.86	108.63	:	110.81
20 :	78.20	0.00	104.23	103.28	:	83.60	0.00	105.87	103.79	:	173.30	0.00	116.19	110.71	108.36	:	110.76
21 :	78.20	0.00	103.51	103.21	:	85.30	0.00	103.84	103.66	:	172.80	0.00	114.30	110.68	108.36	:	110.73
22 :	76.40	0.00	104.99	102.99	:	82.80	0.00	104.61	103.46	:	169.00	0.00	112.46	109.98	108.45	:	110.58
23 :	41.10	0.00	107.10	102.95	:	64.20	0.00	104.47	103.50	:	119.60	0.00	111.75	109.33	108.15	:	110.40
24 :	29.70	0.00	106.39	102.99	:	45.10	0.00	103.93	103.47	:	111.70	0.00	111.02	108.72	107.99	:	110.40

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WALLA WALLA DISTRICT HYDRO PROJECTS
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	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.40	0.00	101.24	102.48	101.75	100.47	50.70	0.00	103.55	102.36	43.40	0.00	100.80	100.99
2	1.40	0.00	101.62	102.35	101.57	100.20	44.50	0.00	103.66	102.32	42.90	0.00	100.89	100.82
3	1.40	0.00	101.99	102.12	101.21	100.01	47.00	0.00	103.46	102.26	39.90	0.00	100.86	100.79
4	1.40	0.00	102.18	101.94	100.97	099.72	50.70	0.00	103.16	102.41	40.20	0.00	100.84	100.78
5	1.40	0.00	102.26	101.92	100.78	099.53	68.20	0.00	103.15	102.38	42.40	0.00	100.69	100.74
6	1.40	0.00	102.24	101.86	100.51	099.37	74.30	0.00	103.00	102.47	59.00	0.00	100.81	100.85
7	1.40	0.00	102.53	101.83	100.46	099.48	73.20	0.00	103.16	102.47	71.30	0.00	100.89	100.98
8	1.40	0.00	102.92	101.97	100.72	099.97	73.30	0.00	102.97	102.60	74.60	0.00	101.06	100.97
9	1.40	0.00	103.63	102.44	101.06	100.76	68.40	0.00	103.02	102.75	74.30	0.00	101.34	101.31
10	1.40	0.00	104.67	102.92	101.32	101.58	68.30	0.00	103.08	102.79	74.40	0.00	101.55	101.47
11	1.40	0.00	105.59	103.60	102.23	102.44	69.60	0.00	103.54	*****	74.50	0.00	101.87	101.55
12	1.40	0.00	106.51	104.23	102.71	103.24	67.90	0.00	104.67	376.05	74.10	0.00	102.34	101.76
13	1.40	0.00	107.29	104.73	103.23	103.96	68.50	0.00	105.16	103.41	74.20	0.00	102.37	101.79
14	1.40	0.00	107.32	105.06	103.84	104.55	66.20	0.00	105.61	103.61	72.30	0.00	102.27	102.14
15	1.30	0.00	107.55	105.41	104.30	105.05	66.10	0.00	105.17	103.43	72.00	0.00	102.38	102.25
16	1.30	0.00	107.79	105.59	104.70	105.28	67.10	0.00	104.71	465.75	70.10	0.00	102.20	102.13
17	1.30	0.00	107.25	105.54	104.70	105.34	66.50	0.00	106.36	103.26	68.80	0.00	101.97	102.22
18	1.30	0.00	106.48	105.27	104.64	105.09	66.80	0.00	106.67	103.37	70.10	0.00	104.04	102.42
19	1.30	0.00	107.25	105.09	104.41	104.61	58.70	0.00	107.13	103.52	66.00	0.00	102.48	102.33
20	1.30	0.00	104.39	104.53	104.08	103.82	59.80	0.00	107.32	103.43	63.80	0.00	106.51	102.20
21	1.30	0.00	103.64	104.07	103.66	103.01	58.10	0.00	104.04	103.28	63.80	0.00	107.46	102.20
22	1.30	0.00	103.31	103.75	103.34	102.41	59.00	0.00	106.44	103.28	63.30	0.00	107.55	102.18
23	1.30	0.00	103.11	103.46	102.98	101.85	56.10	0.00	106.04	103.12	65.60	0.00	107.60	102.48
24	1.40	0.00	103.38	103.19	102.75	101.59	57.50	0.00	104.35	103.17	59.90	0.00	107.06	102.49
	LOWER MONUMENTAL			ICE HARBOR			MCNARY			PASCO				
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	43.80	0.00	101.91	099.93	52.80	0.00	101.02	101.46	81.90	0.00	103.50	110.19	104.41	105.89
2	43.60	0.00	101.20	099.83	43.10	0.00	100.76	101.59	62.50	0.00	109.81	110.09	104.45	105.76
3	40.70	0.00	100.92	099.71	39.10	0.00	100.50	101.70	59.90	0.00	109.66	108.10	104.42	105.60
4	41.30	0.00	101.58	099.68	39.10	0.00	100.48	101.54	62.90	0.00	109.12	108.98	104.12	105.44
5	43.70	0.00	101.14	099.75	40.70	0.00	100.46	101.38	82.70	0.00	108.01	108.86	104.22	105.28
6	46.60	0.00	101.09	099.72	45.10	0.00	100.41	101.53	99.60	0.00	104.33	108.13	104.31	105.12
7	57.10	0.00	101.26	099.86	45.30	0.00	100.38	101.65	118.50	0.00	103.38	108.10	104.43	104.85
8	66.30	0.00	100.70	100.26	57.20	0.00	100.42	102.56	139.20	0.00	103.91	107.27	104.69	104.88
9	75.70	0.00	100.86	100.42	66.60	0.00	100.55	102.64	141.70	0.00	105.37	107.63	105.10	105.11
10	77.80	0.00	100.80	100.70	73.70	0.00	101.78	103.08	137.10	0.00	105.74	107.41	105.46	105.40
11	80.50	0.00	101.26	100.98	76.50	0.00	102.23	103.30	137.30	0.00	106.82	107.23	105.66	105.91
12	78.80	0.00	101.18	101.38	78.10	0.00	102.69	103.35	141.60	0.00	110.85	108.46	105.89	106.24
13	78.90	0.00	101.26	101.67	78.20	0.00	100.93	103.67	128.10	0.00	113.16	108.19	105.93	106.60
14	80.30	0.00	101.35	101.86	76.70	0.00	100.87	103.83	123.20	0.00	114.29	107.44	106.14	106.85
15	79.00	0.00	101.69	101.86	76.90	0.00	100.68	104.00	122.20	0.00	113.59	106.77	106.39	107.28
16	76.50	0.00	101.61	101.98	76.80	0.00	100.76	103.69	118.70	0.00	113.81	107.73	106.60	107.63
17	76.40	0.00	101.55	101.94	76.80	0.00	101.90	103.40	119.20	0.00	114.30	108.26	106.80	107.98
18	76.30	0.00	102.15	101.79	79.70	0.00	103.95	103.10	120.60	0.00	112.24	108.18	106.76	108.22
19	77.30	0.00	102.84	101.79	77.00	0.00	103.60	103.26	109.60	0.00	114.48	107.95	106.56	108.36
20	75.80	0.00	103.17	101.76	77.00	0.00	103.49	102.57	110.80	0.00	114.62	107.59	106.44	108.57
21	75.70	0.00	102.34	101.53	77.50	0.00	104.23	102.47	111.70	0.00	112.13	107.05	106.19	108.42
22	78.30	0.00	103.26	101.60	79.30	0.00	104.94	102.47	114.20	0.00	111.27	108.09	105.99	108.41
23	74.30	0.00	103.81	101.46	78.60	0.00	104.40	102.73	115.20	0.00	111.33	107.15	105.89	108.39
24	59.00	0.00	103.31	101.58	60.60	0.00	103.63	102.49	113.10	0.00	110.96	109.87	106.03	108.39

20 MAY 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

20 MAY 2001

	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.
1	1.50	0.00	102.18	102.72	102.07	101.11	59.80	0.00	103.12	102.50	61.30	0.00	100.81	100.74
2	1.50	0.00	101.94	102.51	101.66	100.70	63.00	0.00	102.98	102.59	60.20	0.00	100.79	100.85
3	1.50	0.00	101.79	102.32	101.45	100.43	62.70	0.00	102.73	102.47	59.80	0.00	100.85	100.65
4	1.50	0.00	101.66	102.26	101.08	100.08	70.10	0.00	102.64	102.23	61.00	0.00	100.78	100.70
5	1.50	0.00	101.58	102.06	100.70	099.92	69.70	0.00	102.73	102.14	60.10	0.00	100.73	100.52
6	1.50	0.00	101.63	101.87	100.55	099.59	74.60	0.00	102.49	102.12	61.40	0.00	100.65	100.46
7	1.50	0.00	102.02	101.81	100.43	099.68	72.30	0.00	102.47	102.20	62.00	0.00	100.57	100.50
8	1.50	0.00	102.49	102.05	100.74	100.16	71.40	0.00	102.42	102.13	64.80	0.00	100.56	100.64
9	1.50	0.00	103.13	102.25	100.94	100.79	75.40	0.00	102.50	102.23	75.20	0.00	100.49	100.86
10	1.50	0.00	103.80	102.64	101.08	101.41	75.90	0.00	102.51	102.42	75.60	0.00	100.49	100.71
11	1.50	0.00	104.53	103.25	101.78	102.11	73.40	0.00	102.67	102.57	74.50	0.00	100.53	100.94
12	1.50	0.00	105.19	103.64	102.21	102.76	74.00	0.00	102.55	102.59	76.10	0.00	100.53	101.07
13	1.40	0.00	105.88	104.08	102.67	103.32	73.10	0.00	102.61	102.77	76.60	0.00	100.56	101.07
14	1.50	0.00	106.04	104.34	103.09	103.87	74.20	0.00	102.74	102.77	76.40	0.00	100.58	101.07
15	1.50	0.00	106.07	104.65	103.45	104.28	72.40	0.00	102.93	102.68	77.40	0.00	100.64	101.43
16	1.50	0.00	105.83	104.78	103.71	104.47	72.50	0.00	102.97	102.73	77.40	0.00	100.70	101.47
17	1.50	0.00	105.56	104.61	103.86	104.35	71.80	0.00	103.01	102.64	76.50	0.00	100.76	101.25
18	1.50	0.00	105.01	104.42	103.64	104.10	74.00	0.00	103.29	102.76	80.70	0.00	100.76	101.39
19	1.50	0.00	105.56	104.07	103.55	103.55	69.10	0.00	103.14	102.52	74.50	0.00	100.86	101.27
20	1.50	0.00	103.20	103.64	103.22	102.75	69.10	0.00	102.98	102.49	73.20	0.00	100.88	100.97
21	1.50	0.00	102.21	103.37	102.71	102.04	61.30	0.00	103.07	102.42	72.80	0.00	100.81	100.92
22	1.40	0.00	101.72	102.87	102.42	101.47	61.10	0.00	102.90	102.24	65.90	0.00	100.77	100.87
23	1.40	0.00	101.29	102.76	102.26	101.07	49.50	0.00	103.17	102.22	58.10	0.00	100.82	100.73
24	1.40	0.00	101.27	102.60	102.00	100.63	48.30	0.00	103.53	102.21	49.90	0.00	100.78	100.99
	LOWER MONUMENTAL			ICE HARBOR			MCNARY			PASCO				
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	70.40	0.00	101.24	100.57	71.30	0.00	100.64	102.02	61.30	0.00	103.02	103.24	103.06	106.32
2	67.20	0.00	101.17	100.46	67.60	0.00	100.62	101.95	60.60	0.00	103.22	102.90	102.82	106.00
3	62.70	0.00	101.09	100.26	62.50	0.00	100.59	101.77	60.80	0.00	102.74	103.43	102.76	105.95
4	58.20	0.00	100.92	100.21	55.40	0.00	100.55	101.75	61.90	0.00	102.96	103.34	102.72	105.76
5	56.90	0.00	100.96	100.12	52.30	0.00	100.35	101.86	79.40	0.00	102.88	103.16	102.77	105.47
6	56.40	0.00	100.92	100.07	51.20	0.00	100.27	101.66	80.20	0.00	102.85	102.85	102.83	105.28
7	63.00	0.00	100.73	100.13	54.00	0.00	100.27	101.79	79.30	0.00	103.34	102.92	102.93	105.21
8	63.40	0.00	100.82	100.26	57.10	0.00	100.34	102.08	84.20	0.00	103.40	103.51	103.01	105.03
9	78.50	0.00	100.76	100.53	65.40	0.00	100.29	102.62	98.30	0.00	103.51	104.68	103.48	104.97
10	80.90	0.00	101.00	100.78	77.60	0.00	100.34	102.80	117.20	0.00	105.58	105.84	103.77	105.28
11	82.10	0.00	100.85	101.11	79.60	0.00	100.60	103.04	118.30	0.00	106.96	104.70	104.06	105.67
12	83.40	0.00	100.78	101.23	81.60	0.00	101.64	102.96	117.80	0.00	107.49	105.53	104.52	105.96
13	80.90	0.00	100.81	101.12	81.20	0.00	100.75	103.09	117.00	0.00	108.07	108.31	104.66	106.00
14	83.40	0.00	100.82	101.15	84.50	0.00	100.39	103.38	125.10	0.00	108.45	110.54	104.94	106.04
15	84.70	0.00	100.84	101.75	84.10	0.00	100.73	103.20	125.70	0.00	108.54	108.12	105.13	106.07
16	83.10	0.00	101.81	101.42	85.50	0.00	101.98	103.04	126.20	0.00	106.46	105.29	105.19	106.20
17	83.40	0.00	101.42	101.21	86.30	0.00	100.83	102.85	138.10	0.00	109.60	104.67	105.26	106.36
18	84.00	0.00	101.85	101.07	87.00	0.00	100.58	102.48	139.90	0.00	113.01	104.79	105.13	106.09
19	75.40	0.00	101.20	100.97	83.60	0.00	101.34	102.08	145.70	0.00	113.16	104.70	105.03	106.08
20	74.20	0.00	100.84	100.53	83.00	0.00	100.47	101.79	157.40	0.00	114.36	104.60	104.79	106.91
21	74.50	0.00	100.81	100.30	74.40	0.00	101.87	101.67	158.10	0.00	111.92	104.89	104.66	107.02
22	73.50	0.00	100.73	100.19	74.70	0.00	101.85	101.63	155.90	0.00	110.42	106.94	104.59	106.58
23	66.10	0.00	101.69	100.17	72.60	0.00	101.45	101.63	117.20	0.00	105.23	108.39	104.43	106.34
24	57.50	0.00	101.79	099.97	66.60	0.00	101.34	101.61	88.00	0.00	103.48	110.99	104.55	106.34

19 MAY 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

19 MAY 2001

	DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR :	TOTAL DISCH. KCFS	SPIILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPIILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPIILL KCFS	GAS FB	%SAT TAILW.		
1 :	1.30	0.00	104.83	103.09	102.26	100.86	67.50	0.00	*****	102.33	76.10	0.00	100.21	100.28		
2 :	1.30	0.00	104.80	103.10	102.00	100.56	68.60	0.00	103.17	102.38	68.30	0.00	100.29	100.49		
3 :	1.40	0.00	105.01	103.01	101.78	100.47	67.50	0.00	103.11	102.41	66.20	0.00	100.16	100.37		
4 :	1.30	0.00	105.16	102.90	101.68	100.39	67.30	0.00	103.24	102.45	65.70	0.00	100.19	100.36		
5 :	1.30	0.00	105.14	102.68	101.37	100.20	67.30	0.00	103.23	102.41	64.20	0.00	100.16	100.24		
6 :	1.40	0.00	105.29	102.75	101.23	100.23	67.30	0.00	102.93	102.42	65.20	0.00	100.32	100.27		
7 :	1.40	0.00	105.40	102.71	101.20	100.35	74.60	0.00	103.08	102.44	72.80	0.00	100.55	100.36		
8 :	1.30	0.00	105.85	102.87	101.24	100.50	84.50	0.00	102.78	102.68	79.30	0.00	100.32	100.47		
9 :	1.40	0.00	106.18	103.01	101.42	100.91	88.50	0.00	102.98	102.81	88.30	0.00	100.47	100.55		
10 :	1.40	0.00	106.76	103.22	101.73	101.52	90.40	0.00	103.00	103.16	87.30	0.00	100.49	100.53		
11 :	1.40	0.00	107.68	103.59	102.34	102.12	88.80	0.00	103.34	103.04	87.40	0.00	100.51	100.88		
12 :	1.40	0.00	108.37	104.03	102.90	102.87	86.70	0.00	103.38	103.31	87.30	0.00	100.59	101.08		
13 :	1.30	0.00	109.18	104.55	103.30	103.46	84.50	0.00	103.29	103.45	87.30	0.00	100.67	101.14		
14 :	1.40	0.00	109.64	104.73	103.91	103.88	71.90	0.00	103.36	103.36	74.80	0.00	100.64	101.27		
15 :	1.40	0.00	109.98	104.86	104.31	104.44	70.90	0.00	103.40	103.45	73.60	0.00	100.87	101.36		
16 :	1.40	0.00	109.87	105.08	104.67	104.66	68.10	0.00	103.45	103.66	68.10	0.00	100.83	101.43		
17 :	1.50	0.00	109.55	105.10	104.78	104.66	69.00	0.00	103.54	103.54	66.70	0.00	100.97	101.45		
18 :	1.50	0.00	108.51	104.92	104.58	104.53	71.10	0.00	103.71	103.46	70.50	0.00	100.98	101.45		
19 :	1.50	0.00	109.55	104.72	104.25	104.04	81.40	0.00	103.63	103.42	74.60	0.00	101.02	101.34		
20 :	1.50	0.00	104.47	104.41	103.81	103.35	88.10	0.00	103.64	103.44	83.70	0.00	100.91	101.23		
21 :	1.50	0.00	103.25	103.80	103.38	102.65	86.50	0.00	103.50	103.15	91.50	0.00	100.80	101.13		
22 :	1.50	0.00	102.45	103.35	103.05	102.13	70.90	0.00	103.40	102.89	92.80	0.00	100.75	101.01		
23 :	1.50	0.00	102.29	103.12	102.63	101.66	61.80	0.00	103.41	102.74	80.50	0.00	100.83	100.88		
24 :	1.50	0.00	102.22	102.72	102.29	101.43	64.40	0.00	103.25	102.70	72.20	0.00	100.79	101.00		
	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR :	TOTAL DISCH KCFS	SPIILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPIILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPIILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT		
1 :	90.60	0.00	101.52	100.98	92.20	0.00	101.67	102.91	84.40	0.00	106.35	109.29	103.88	107.28		
2 :	93.20	0.00	101.68	101.01	91.90	0.00	101.61	102.81	82.20	0.00	106.55	109.74	103.90	107.17		
3 :	84.60	0.00	101.58	101.00	93.40	0.00	101.61	102.70	95.90	0.00	104.94	109.32	103.90	107.19		
4 :	78.90	0.00	102.38	100.98	91.30	0.00	101.46	102.66	114.20	0.00	104.78	108.88	103.99	107.14		
5 :	72.10	0.00	102.38	100.97	84.20	34.90	101.23	103.02	122.20	0.00	103.27	108.67	104.05	107.24		
6 :	70.50	0.00	102.32	101.03	81.40	39.80	101.03	110.64	129.30	0.00	102.54	107.99	104.13	106.98		
7 :	75.50	0.00	102.07	101.19	78.80	39.90	101.00	111.57	137.50	0.00	102.65	107.82	104.13	106.86		
8 :	77.50	0.00	101.95	101.22	79.10	39.80	100.97	112.13	140.80	0.00	102.76	108.69	104.26	106.82		
9 :	86.00	0.00	101.76	101.34	86.50	39.80	101.11	112.27	142.70	0.00	102.60	108.48	104.19	106.97		
10 :	86.40	0.00	101.75	101.45	90.60	39.40	101.42	112.88	141.30	0.00	102.94	108.38	104.69	107.54		
11 :	86.10	0.00	101.67	101.74	83.50	1.20	101.74	112.16	127.60	0.00	103.14	107.20	104.99	107.85		
12 :	88.00	0.00	101.71	101.93	84.50	0.00	101.81	105.35	127.90	0.00	108.67	106.21	104.85	108.02		
13 :	86.30	0.00	101.73	101.88	84.50	0.00	101.50	104.21	131.70	0.00	107.09	105.34	104.65	108.34		
14 :	86.70	0.00	101.94	101.90	86.40	0.00	101.53	104.48	111.40	0.00	106.62	104.59	104.71	?UNDEF		
15 :	86.90	0.00	102.14	102.17	85.70	0.00	101.61	104.26	129.60	0.00	106.39	104.66	104.80	?UNDEF		
16 :	77.80	0.00	102.31	102.23	80.60	0.00	101.68	104.27	137.90	0.00	106.33	104.82	104.57	?UNDEF		
17 :	79.00	0.00	102.29	102.12	78.50	0.00	101.59	103.98	141.50	0.00	106.07	104.96	104.60	?UNDEF		
18 :	78.20	0.00	102.25	101.99	78.80	0.00	101.80	103.49	142.80	0.00	105.80	104.83	104.59	108.74		
19 :	79.50	0.00	102.20	101.76	79.90	0.00	101.50	103.16	143.60	0.00	105.67	104.39	104.24	108.52		
20 :	80.60	0.00	102.11	101.36	80.20	0.00	101.41	102.77	159.50	0.00	105.24	104.12	103.92	108.32		
21 :	85.20	0.00	101.99	101.21	84.90	0.00	101.32	102.52	156.90	0.00	104.86	103.77	103.51	107.91		
22 :	92.10	0.00	101.75	101.08	86.40	0.00	101.08	102.38	158.00	0.00	104.39	103.61	103.40	107.40		
23 :	88.90	0.00	101.51	100.96	86.00	0.00	100.99	102.35	135.10	0.00	103.94	103.78	103.41	107.02		
24 :	87.40	0.00	101.45	100.70	84.50	0.00	100.85	102.23	80.10	0.00	103.35	103.60	103.21	107.02		

18 MAY 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

18 MAY 2001

	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR :	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1 :	1.40	0.00	104.14	103.30	102.78	101.29	81.80	0.00	102.27	102.02	69.90	0.00	100.65	100.87
2 :	1.40	0.00	104.11	103.14	102.49	101.25	81.60	0.00	102.26	101.98	69.00	0.00	100.65	100.71
3 :	1.40	0.00	103.95	103.14	102.22	101.10	82.90	0.00	102.13	101.97	67.50	0.00	100.60	100.51
4 :	1.40	0.00	103.93	102.95	101.99	100.93	68.30	0.00	102.03	101.79	69.60	0.00	100.56	100.49
5 :	1.40	0.00	103.85	102.74	101.64	100.87	70.10	0.00	101.99	101.71	71.40	0.00	100.33	100.39
6 :	1.40	0.00	103.75	102.66	101.50	100.74	89.10	0.00	101.85	101.60	75.60	0.00	100.24	100.36
7 :	1.40	0.00	103.86	102.59	101.23	100.71	91.80	0.00	101.81	101.67	94.30	0.00	100.21	100.41
8 :	1.40	0.00	103.91	102.65	101.16	100.79	90.50	0.00	101.93	101.76	93.70	0.00	100.32	100.52
9 :	1.40	0.00	104.30	102.79	101.16	100.90	89.50	0.00	101.86	101.72	89.80	0.00	100.28	100.47
10 :	1.40	0.00	104.79	102.88	101.43	101.54	86.50	0.00	101.85	101.87	91.10	0.00	100.28	100.61
11 :	1.40	0.00	105.46	103.12	101.72	102.18	90.90	0.00	102.12	101.99	92.60	0.00	100.25	100.61
12 :	1.40	0.00	106.11	103.70	101.97	102.71	86.10	0.00	102.14	102.15	85.00	0.00	100.29	100.80
13 :	1.40	0.00	106.44	104.02	102.26	102.61	88.50	0.00	102.10	102.16	87.70	0.00	100.25	100.66
14 :	1.40	0.00	106.68	104.31	102.44	102.55	90.80	0.00	102.32	102.16	90.40	0.00	100.31	100.66
15 :	1.40	0.00	106.83	104.76	102.88	102.85	88.80	0.00	102.48	102.22	89.30	0.00	100.32	100.84
16 :	1.40	0.00	106.86	105.03	103.19	103.32	82.30	0.00	102.66	102.38	83.60	0.00	100.41	100.89
17 :	1.40	0.00	106.62	105.10	103.24	103.36	81.00	0.00	103.06	102.45	80.60	0.00	100.41	100.79
18 :	1.40	0.00	106.25	104.95	103.07	103.15	85.50	0.00	103.25	102.42	87.20	0.00	100.35	100.83
19 :	1.40	0.00	106.62	104.64	102.99	102.75	78.30	0.00	103.21	102.47	89.50	0.00	100.32	100.72
20 :	1.30	0.00	105.70	104.35	103.01	102.32	78.00	0.00	103.77	102.46	83.60	0.00	100.31	100.57
21 :	1.40	0.00	105.06	104.02	102.77	101.85	77.60	0.00	103.61	102.53	83.20	0.00	100.29	100.51
22 :	1.40	0.00	104.91	103.75	102.62	101.46	68.70	0.00	103.31	102.39	83.80	0.00	100.32	100.36
23 :	1.40	0.00	104.94	103.50	102.47	101.20	69.90	0.00	103.33	102.26	83.70	0.00	100.13	100.24
24 :	1.30	0.00	104.94	103.36	102.51	100.91	67.90	0.00	103.50	102.33	82.40	0.00	100.19	100.27
	LOWER MONUMENTAL			ICE HARBOR			MCNARY			PASCO				
HOUR :	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1 :	70.50	0.00	102.18	101.45	93.40	0.00	101.65	102.85	97.70	0.00	103.55	104.77	104.12	106.93
2 :	77.30	0.00	102.01	101.42	90.50	0.00	101.48	103.25	95.50	0.00	103.24	104.58	103.78	106.77
3 :	78.00	0.00	102.13	101.25	90.80	0.00	101.45	102.85	102.40	0.00	103.22	104.57	103.64	106.60
4 :	81.30	0.00	101.94	101.21	92.50	0.00	101.40	102.78	109.00	0.00	104.73	104.10	103.43	106.31
5 :	88.60	0.00	101.83	101.10	91.10	0.00	101.20	102.69	168.30	0.00	104.41	103.73	103.48	106.08
6 :	89.10	0.00	101.73	100.85	91.30	0.00	101.12	102.50	178.10	0.00	103.69	103.67	103.42	105.90
7 :	95.40	0.00	101.55	100.82	92.20	0.00	101.06	102.45	178.60	0.00	104.28	103.35	103.18	105.58
8 :	94.00	0.00	101.43	100.81	92.50	0.00	101.02	102.67	172.90	0.00	103.97	103.31	103.29	105.62
9 :	92.20	0.00	101.37	100.91	92.30	0.00	101.10	102.84	173.20	0.00	104.28	103.14	103.51	105.62
10 :	91.20	0.00	101.35	101.07	92.70	0.00	101.34	103.35	172.10	0.00	105.91	103.11	103.78	105.81
11 :	89.40	0.00	101.25	101.30	90.70	0.00	101.35	103.30	172.70	0.00	107.02	103.40	103.94	106.10
12 :	94.20	0.00	101.24	101.36	91.20	0.00	101.26	103.49	172.70	0.00	107.85	103.34	104.11	106.44
13 :	97.90	0.00	101.28	101.43	91.20	0.00	101.94	103.75	172.50	0.00	108.93	103.37	104.33	106.60
14 :	99.20	0.00	101.84	101.54	92.40	0.00	101.35	104.23	172.10	0.00	108.20	103.67	104.51	106.90
15 :	99.20	0.00	102.04	101.58	92.10	0.00	102.06	103.85	168.30	0.00	109.26	103.86	104.42	107.08
16 :	99.20	0.00	101.81	101.67	92.20	0.00	101.32	103.79	168.00	0.00	110.82	103.79	104.48	107.41
17 :	101.10	0.00	102.11	101.73	92.30	0.00	101.22	103.56	168.00	0.00	112.02	104.06	104.28	107.75
18 :	98.60	0.00	102.14	101.62	93.70	0.00	101.26	103.32	168.10	0.00	113.79	104.00	104.34	107.66
19 :	90.60	0.00	102.54	101.38	92.20	0.00	103.65	103.03	167.00	0.00	103.36	104.17	104.21	107.80
20 :	89.50	0.00	102.71	101.20	93.90	0.00	103.40	103.32	150.50	0.00	103.12	104.57	104.24	107.63
21 :	90.20	0.00	102.50	101.12	92.40	0.00	102.84	103.15	149.10	0.00	103.01	109.33	104.21	107.76
22 :	93.30	0.00	101.47	101.29	92.00	0.00	102.16	102.87	147.60	0.00	103.33	109.66	104.18	107.62
23 :	92.50	0.00	101.43	101.11	92.10	0.00	102.59	102.89	118.50	0.00	104.11	109.67	104.02	107.50
24 :	91.10	0.00	101.35	100.98	93.60	0.00	101.84	102.91	71.60	0.00	105.92	109.39	103.85	107.50

17 MAY 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

17 MAY 2001

	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.
1	1.60	0.00	098.86	102.95	102.28	100.68	79.80	0.00	101.07	100.83	82.10	0.00	101.00	101.07
2	1.60	0.00	098.86	102.83	102.12	100.59	74.30	0.00	101.10	100.86	71.80	0.00	100.96	100.92
3	1.60	0.00	098.89	102.70	102.01	100.58	76.30	0.00	100.97	100.98	73.00	0.00	100.84	100.93
4	1.60	0.00	098.76	102.68	101.67	100.44	82.10	0.00	100.93	100.94	81.60	0.00	100.84	100.77
5	1.60	0.00	098.70	102.71	101.57	100.42	88.80	0.00	101.07	100.84	90.90	0.00	100.84	100.76
6	1.60	0.00	098.84	102.53	101.39	100.28	92.80	0.00	100.90	100.96	96.10	0.00	100.87	100.77
7	1.60	0.00	099.27	102.55	101.43	100.43	93.80	0.00	100.95	100.99	98.40	0.00	100.75	100.93
8	1.60	0.00	099.74	102.72	101.49	100.72	92.60	0.00	101.09	101.11	94.50	0.00	100.88	100.95
9	1.60	0.00	100.35	103.06	101.75	101.02	91.80	0.00	101.26	101.34	93.40	0.00	100.88	100.97
10	1.60	0.00	100.96	103.58	102.06	101.54	91.70	0.00	101.46	101.49	90.00	0.00	100.96	101.19
11	1.50	0.00	101.63	103.90	102.47	102.11	93.40	0.00	102.10	101.70	89.70	0.00	101.03	101.25
12	1.50	0.00	102.16	104.30	102.77	102.46	91.70	0.00	102.13	101.89	84.50	0.00	101.39	101.47
13	1.50	0.00	102.77	104.54	103.19	102.93	93.70	0.00	102.68	102.16	91.10	0.00	101.45	101.55
14	1.50	0.00	103.61	104.77	103.56	103.24	93.80	0.00	102.99	102.20	94.40	0.00	101.37	101.63
15	1.50	0.00	103.80	104.99	103.81	103.42	98.30	0.00	102.52	102.39	98.10	0.00	101.39	101.48
16	1.50	0.00	103.84	105.05	103.95	103.46	100.70	0.00	102.79	102.30	98.60	0.00	101.26	101.50
17	1.40	0.00	103.74	105.05	104.10	103.33	96.30	0.00	102.54	102.27	97.10	0.00	101.33	101.70
18	1.40	0.00	103.42	104.84	104.14	103.03	87.80	0.00	102.56	102.43	92.30	0.00	101.21	101.54
19	1.40	0.00	103.74	104.69	104.11	102.76	88.50	0.00	102.96	102.28	90.50	0.00	101.21	101.27
20	1.40	0.00	104.03	104.51	103.84	102.44	82.20	0.00	103.02	102.22	92.40	0.00	100.94	101.20
21	1.40	0.00	104.48	104.13	103.55	102.11	81.70	0.00	102.70	102.13	93.30	0.00	100.94	101.02
22	1.40	0.00	104.40	103.83	103.31	101.77	81.00	0.00	102.38	102.13	93.50	0.00	100.91	100.98
23	1.40	0.00	104.06	103.64	103.15	101.60	83.00	0.00	102.30	102.08	87.10	0.00	100.87	100.96
24	1.40	0.00	104.17	103.49	102.99	101.45	82.50	0.00	102.32	102.08	80.00	0.00	100.84	100.95
	LOWER MONUMENTAL			ICE HARBOR			MCNARY			PASCO				
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT
1	82.60	0.00	102.50	101.95	89.70	0.00	102.11	103.44	92.20	0.00	104.64	104.39	104.02	104.89
2	81.30	0.00	102.52	102.03	89.20	0.00	102.13	103.33	97.40	0.00	104.41	104.15	104.06	104.74
3	84.20	0.00	102.52	102.03	93.50	0.00	102.25	103.38	99.30	0.00	104.57	104.05	104.19	104.90
4	82.30	0.00	102.47	101.89	90.90	0.00	101.97	103.35	116.00	0.00	104.18	103.93	104.31	104.77
5	89.20	0.00	102.33	101.84	90.90	0.00	101.86	103.52	139.70	0.00	104.22	104.03	104.45	104.64
6	94.30	0.00	102.24	101.75	91.20	0.00	101.90	103.14	139.50	0.00	104.26	104.22	104.39	104.69
7	95.40	0.00	102.23	101.76	90.90	0.00	101.91	103.32	139.60	0.00	104.21	104.09	104.35	104.94
8	96.90	0.00	102.27	101.74	92.40	0.00	101.91	103.53	138.50	0.00	104.21	103.69	104.35	104.93
9	98.50	0.00	102.42	101.86	90.90	0.00	101.75	103.48	171.40	0.00	104.79	103.84	104.52	104.71
10	98.60	0.00	102.77	101.91	92.50	0.00	101.73	104.16	174.10	0.00	104.94	104.66	104.71	104.76
11	100.60	0.00	102.95	102.37	90.80	0.00	101.69	104.17	174.60	0.00	106.12	104.21	104.76	105.65
12	99.40	0.00	102.65	102.33	92.10	0.00	101.76	103.98	173.80	0.00	107.72	104.81	104.86	106.36
13	98.30	0.00	102.33	102.30	90.50	0.00	101.78	103.91	170.90	0.00	108.69	104.89	105.09	106.81
14	93.90	0.00	102.40	102.24	92.10	0.00	101.72	103.95	174.10	0.00	108.57	104.45	105.00	107.34
15	96.00	0.00	102.27	102.09	90.70	0.00	101.88	103.72	174.10	0.00	108.48	104.71	105.04	107.59
16	97.00	0.00	102.31	102.28	90.60	0.00	102.30	103.75	174.20	0.00	109.75	104.68	104.99	107.62
17	98.40	0.00	102.45	102.13	90.30	0.00	102.96	103.65	174.20	0.00	110.15	104.54	104.85	107.54
18	99.10	0.00	102.56	102.09	92.00	0.00	101.96	103.62	174.50	0.00	110.39	104.58	104.58	107.35
19	97.70	0.00	102.92	101.95	90.30	0.00	101.78	103.71	173.50	0.00	109.40	104.72	104.59	107.20
20	98.30	0.00	102.80	102.17	90.20	0.00	101.76	103.24	173.00	0.00	108.22	104.24	104.38	107.06
21	97.60	0.00	102.73	101.81	90.30	0.00	101.69	103.08	171.10	0.00	108.27	104.14	104.32	106.97
22	96.00	0.00	102.70	101.78	90.10	0.00	101.77	103.03	118.10	0.00	108.34	104.07	104.14	107.09
23	85.70	0.00	102.40	101.76	89.40	0.00	101.61	103.00	98.00	0.00	105.37	103.72	104.10	107.17
24	81.90	0.00	102.07	101.65	89.40	0.00	101.66	102.90	99.60	0.00	103.72	104.03	104.05	107.17

16 MAY 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

16 MAY 2001

	DWORSHAK			:	STREAMFLOW			:	LOWER GRANITE			:	LITTLE GOOSE				
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	:	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.60	0.00	104.13	:	102.74	103.31	101.73	:	90.10	0.00	103.11	102.55	:	91.00	0.00	102.94	102.72
2	1.60	0.00	104.00	:	102.64	103.09	101.58	:	87.60	0.00	102.64	102.37	:	82.00	0.00	102.72	102.47
3	1.60	0.00	103.88	:	102.51	102.60	101.36	:	82.60	0.00	102.37	102.16	:	79.70	0.00	102.41	102.12
4	1.60	0.00	103.72	:	102.35	102.37	101.05	:	84.70	0.00	102.05	101.82	:	80.10	0.00	102.12	102.01
5	1.60	0.00	103.72	:	102.07	101.97	100.93	:	85.60	0.00	101.81	101.53	:	83.80	0.00	101.98	101.77
6	1.60	0.00	103.56	:	101.89	101.66	100.66	:	86.20	0.00	101.67	101.45	:	84.30	0.00	101.73	101.60
7	1.60	0.00	103.66	:	101.85	101.53	100.55	:	92.70	0.00	101.62	101.31	:	91.80	0.00	101.65	101.67
8	1.60	0.00	103.91	:	102.07	101.53	100.76	:	94.80	0.00	101.38	101.19	:	91.20	0.00	101.55	101.59
9	1.60	0.00	104.26	:	102.27	101.64	101.01	:	94.90	0.00	101.33	101.23	:	98.40	0.00	101.43	101.61
10	1.60	0.00	105.11	:	102.73	102.02	101.29	:	95.00	0.00	101.20	101.37	:	100.60	0.00	101.44	101.55
11	1.60	0.00	105.66	:	103.10	102.14	101.29	:	93.20	0.00	101.17	101.14	:	93.20	0.00	101.43	101.59
12	1.60	0.00	105.66	:	103.39	102.29	101.69	:	93.30	0.00	101.13	101.12	:	92.90	0.00	101.24	101.56
13	1.60	0.00	105.64	:	103.64	102.36	102.23	:	93.30	0.00	101.01	101.00	:	94.10	0.00	101.22	101.55
14	1.60	0.00	105.78	:	103.63	102.52	102.51	:	95.20	0.00	100.97	101.02	:	92.00	0.00	101.05	101.43
15	1.70	0.00	105.58	:	103.82	102.58	102.72	:	95.40	0.00	101.17	101.02	:	96.90	0.00	101.08	101.51
16	1.60	0.00	105.49	:	104.00	102.75	102.69	:	95.80	0.00	101.24	101.08	:	95.60	0.00	101.15	101.39
17	1.60	0.00	105.04	:	104.09	102.93	102.86	:	95.60	0.00	101.34	101.11	:	96.00	0.00	101.14	101.41
18	1.60	0.00	103.58	:	104.06	102.96	102.57	:	95.80	0.00	101.48	101.08	:	95.50	0.00	101.20	101.39
19	1.60	0.00	105.04	:	103.76	102.99	102.33	:	97.90	0.00	101.34	101.14	:	95.80	0.00	101.20	101.39
20	1.60	0.00	100.83	:	103.59	102.99	101.78	:	97.70	0.00	101.25	101.25	:	96.80	0.00	101.18	101.53
21	1.60	0.00	100.04	:	103.50	102.74	101.47	:	93.50	0.00	101.41	100.92	:	96.80	0.00	101.08	101.19
22	1.60	0.00	099.49	:	103.41	102.61	101.11	:	88.70	0.00	101.29	100.88	:	96.70	0.00	101.05	101.13
23	1.60	0.00	099.07	:	103.28	102.54	101.02	:	82.50	0.00	101.26	100.91	:	94.00	0.00	101.01	101.09
24	1.60	0.00	098.92	:	103.16	102.51	100.84	:	79.50	0.00	101.26	100.74	:	75.70	0.00	101.01	100.93

	LOWER MONUMENTAL			:	ICE HARBOR			:	MCNARY			:	PASCO				
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT. TAILW.	:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT. TAILW.	:	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB %SAT. TAILW.	:	GAS % SAT			
1	98.30	0.00	103.52 103.13	:	92.20	0.00	103.44 104.67	:	119.20	0.00	107.13 107.75	106.83	:	105.62			
2	95.90	0.00	103.54 102.79	:	95.10	0.00	103.03 104.32	:	113.80	0.00	106.71 107.90	106.30	:	105.21			
3	86.20	0.00	103.28 102.85	:	92.10	0.00	102.95 104.18	:	101.70	0.00	106.39 107.23	105.85	:	104.66			
4	90.70	0.00	103.17 102.45	:	92.30	0.00	102.80 104.05	:	115.80	0.00	105.79 106.91	105.35	:	104.60			
5	91.00	0.00	103.08 102.33	:	92.30	0.00	102.59 103.84	:	125.90	0.00	105.51 106.40	105.23	:	104.35			
6	91.50	0.00	102.99 102.21	:	93.90	0.00	102.48 103.74	:	143.30	0.00	105.64 106.05	105.12	:	104.01			
7	94.40	0.00	102.90 102.11	:	92.10	0.00	102.44 104.07	:	147.30	0.00	105.77 105.90	105.05	:	104.17			
8	93.90	0.00	102.79 102.04	:	91.50	0.00	102.43 103.93	:	157.00	0.00	105.36 105.83	105.26	:	103.98			
9	93.10	0.00	102.81 102.57	:	92.40	0.00	102.37 103.94	:	153.70	0.00	104.65 105.76	105.08	:	104.05			
10	92.80	0.00	102.75 102.34	:	94.00	0.00	102.36 104.75	:	156.60	0.00	104.56 105.13	104.95	:	104.02			
11	92.00	0.00	102.63 102.52	:	91.60	0.00	102.36 104.29	:	157.80	0.00	104.53 105.19	101.90	:	104.25			
12	91.60	0.00	102.66 102.54	:	91.60	0.00	102.33 104.68	:	159.00	0.00	104.71 105.49	103.88	:	104.30			
13	91.50	0.00	102.69 102.77	:	91.30	0.00	102.33 104.56	:	157.70	0.00	104.76 105.29	104.58	:	104.59			
14	97.00	0.00	102.71 102.77	:	91.70	0.00	102.53 104.66	:	157.90	0.00	104.80 106.23	105.30	:	104.91			
15	98.50	0.00	102.85 102.69	:	93.00	0.00	102.58 104.36	:	150.80	0.00	105.01 105.61	105.28	:	105.07			
16	97.80	0.00	102.88 102.74	:	91.50	0.00	102.60 104.54	:	150.30	0.00	104.96 105.48	105.34	:	105.20			
17	97.40	0.00	103.04 102.76	:	92.50	0.00	102.73 104.68	:	149.60	0.00	105.28 105.39	105.40	:	105.12			
18	92.50	0.00	103.05 102.81	:	90.60	0.00	102.57 104.23	:	140.70	0.00	105.95 105.24	105.29	:	105.36			
19	99.80	0.00	103.02 102.68	:	90.60	0.00	102.72 104.10	:	141.70	0.00	105.83 105.14	105.20	:	105.51			
20	98.30	0.00	103.02 102.45	:	90.50	0.00	102.57 103.91	:	152.40	0.00	105.65 104.96	104.88	:	105.35			
21	98.20	0.00	102.93 102.34	:	90.50	0.00	102.50 103.74	:	161.70	0.00	105.33 104.79	104.69	:	105.40			
22	97.70	0.00	102.70 102.22	:	89.90	0.00	102.45 103.65	:	161.00	0.00	104.55 104.55	104.47	:	105.22			
23	96.70	0.00	102.80 102.00	:	91.20	0.00	102.28 103.51	:	139.10	0.00	104.44 104.56	104.31	:	105.21			
24	92.70	0.00	102.63 102.12	:	89.90	0.00	102.12 103.56	:	94.90	0.00	104.37 104.52	104.02	:	105.21			

15 MAY 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

15 MAY 2001

HOUR	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.60	0.00	104.36	102.44	102.24	100.82	41.20	0.00	UNDEF	102.71	46.40	0.00	103.43	103.37
2	1.60	0.00	104.19	102.29	102.17	100.78	40.30	0.00	102.95	102.54	37.50	0.00	103.24	103.20
3	1.60	0.00	104.30	102.26	101.92	100.76	57.10	0.00	102.93	102.66	39.40	0.00	103.20	102.98
4	1.60	0.00	104.38	102.19	101.91	100.73	75.60	0.00	102.87	102.62	32.10	0.00	103.01	103.09
5	1.60	0.00	104.35	102.13	101.78	100.54	89.00	0.00	102.62	102.41	66.70	0.00	102.96	103.66
6	1.60	0.00	104.42	102.06	101.58	100.49	94.20	0.00	102.58	102.46	95.50	0.00	103.12	103.22
7	1.60	0.00	104.60	102.01	101.47	100.55	89.10	0.00	102.51	102.53	97.20	0.00	102.99	103.07
8	1.60	0.00	104.56	102.12	101.44	100.62	81.50	0.00	102.43	102.47	98.20	0.00	102.93	102.99
9	1.60	0.00	104.78	102.39	101.61	100.74	76.30	0.00	102.43	102.49	88.50	0.00	102.78	102.96
10	1.60	0.00	105.35	102.67	101.63	100.92	73.10	0.00	102.47	102.50	76.10	0.00	102.82	103.00
11	1.60	0.00	105.92	102.84	102.09	101.32	75.40	0.00	102.54	102.53	72.00	0.00	*****	103.00
12	1.60	0.00	106.25	103.16	102.45	101.90	77.00	0.00	102.55	102.54	72.20	0.00	102.96	103.07
13	1.60	0.00	106.88	103.23	102.76	102.51	75.80	0.00	102.49	102.65	73.30	0.00	102.79	103.17
14	1.60	0.00	107.26	103.56	103.16	102.85	78.10	0.00	102.73	102.78	75.50	0.00	102.89	103.22
15	1.60	0.00	107.20	103.67	103.58	103.08	80.10	0.00	102.79	102.81	78.80	0.00	102.95	103.48
16	1.60	0.00	107.04	103.79	103.73	103.18	89.70	0.00	102.92	102.62	92.40	0.00	103.04	103.28
17	1.60	0.00	106.58	103.71	104.04	102.99	90.00	0.00	102.90	102.81	95.60	0.00	103.11	103.23
18	1.60	0.00	106.05	103.56	103.99	102.61	92.70	0.00	103.80	102.79	98.80	0.00	103.02	103.14
19	1.60	0.00	106.58	103.49	103.90	102.52	92.90	0.00	103.18	102.64	102.60	0.00	103.08	103.21
20	1.60	0.00	105.33	103.37	104.13	102.30	93.00	0.00	103.75	102.69	101.60	0.00	103.13	103.14
21	1.60	0.00	104.89	103.22	103.92	102.17	94.70	0.00	103.65	102.76	98.70	0.00	103.20	103.18
22	1.60	0.00	104.46	103.12	103.80	102.05	92.50	0.00	103.57	102.63	98.40	0.00	103.23	103.17
23	1.60	0.00	104.22	103.04	103.62	101.98	92.60	0.00	102.98	102.79	91.00	0.00	103.28	103.07
24	1.60	0.00	104.19	102.89	103.47	101.87	90.60	0.00	103.33	102.69	91.00	0.00	103.03	102.83
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO	
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	42.80	0.00	104.87	104.12	49.40	0.00	102.99	104.31	60.40	0.00	108.95	108.93	107.19	107.27
2	41.70	0.00	104.80	103.90	38.10	0.00	102.91	104.12	60.50	0.00	108.49	108.76	107.05	106.83
3	39.80	0.00	104.75	103.86	33.70	0.00	102.88	103.95	66.80	0.00	108.86	108.08	107.13	106.08
4	31.40	0.00	104.67	103.55	29.40	0.00	102.67	103.91	67.40	0.00	108.83	107.88	106.92	105.22
5	28.40	0.00	104.65	103.34	20.30	0.00	102.65	103.73	69.70	0.00	108.49	107.29	106.75	104.75
6	70.50	0.00	104.56	103.66	41.30	0.00	102.56	103.68	98.40	0.00	108.45	107.34	106.31	104.16
7	96.10	0.00	104.49	103.77	56.90	0.00	102.61	104.05	119.00	0.00	108.23	106.89	106.36	104.08
8	101.90	0.00	104.31	103.59	72.90	0.00	102.57	104.44	131.20	0.00	107.80	106.74	106.33	103.98
9	100.50	0.00	103.89	103.64	75.00	0.00	102.42	104.29	147.40	0.00	107.57	107.02	106.62	103.98
10	90.40	0.00	103.92	103.68	79.50	0.00	102.59	104.70	148.20	0.00	108.27	107.17	107.06	104.19
11	84.60	0.00	103.93	103.93	94.90	0.00	102.65	104.84	147.80	0.00	108.41	107.24	107.21	104.63
12	84.80	0.00	103.98	103.97	91.90	0.00	102.81	104.79	152.90	0.00	109.45	107.41	107.41	104.96
13	88.20	0.00	104.25	104.26	93.40	0.00	102.89	105.15	153.20	0.00	108.99	107.51	107.53	105.58
14	89.30	0.00	104.33	104.37	93.70	0.00	103.00	105.53	151.60	0.00	110.43	107.57	107.77	106.18
15	90.60	0.00	104.15	104.47	92.10	0.00	103.57	105.32	149.10	0.00	110.83	107.71	107.89	106.27
16	90.00	0.00	104.25	104.18	93.60	0.00	103.71	105.18	150.30	0.00	111.65	107.70	108.00	106.66
17	91.20	0.00	104.08	104.07	92.20	0.00	103.76	105.37	152.80	0.00	111.71	108.04	107.97	106.58
18	95.70	0.00	104.79	103.87	93.80	0.00	103.71	105.01	150.40	0.00	111.50	107.87	108.19	106.57
19	96.90	0.00	104.99	103.93	93.80	0.00	103.93	105.08	149.00	0.00	111.72	108.33	107.98	106.49
20	101.30	0.00	105.01	103.94	92.40	0.00	103.99	105.38	150.70	0.00	112.02	108.06	107.86	106.66
21	100.00	0.00	104.92	103.81	92.30	0.00	104.13	105.09	149.50	0.00	108.36	108.24	107.98	106.65
22	102.50	0.00	104.86	103.75	92.00	0.00	103.64	105.02	152.60	0.00	107.06	110.19	107.66	106.59
23	96.60	0.00	104.40	103.50	93.70	0.00	103.63	104.72	128.40	0.00	107.10	108.93	107.48	106.17
24	97.80	0.00	103.63	103.54	91.70	0.00	103.52	104.65	125.20	0.00	106.83	107.76	107.10	106.17

14 MAY 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

14 MAY 2001

	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.70	0.00	103.37	102.33	102.25	100.97	60.50	0.00	103.92	103.12	58.20	0.00	103.42	103.27
2	1.60	0.00	103.40	102.26	102.18	100.92	53.10	0.00	103.93	103.02	49.30	0.00	000.00	103.28
3	1.60	0.00	103.72	102.14	102.06	100.80	40.80	0.00	103.99	103.04	49.20	0.00	103.46	103.42
4	1.60	0.00	103.61	102.12	102.04	100.81	40.90	0.00	103.81	103.01	43.80	0.00	103.42	103.25
5	1.70	0.00	103.25	102.02	101.90	100.62	61.50	0.00	104.21	103.12	43.30	0.00	103.39	103.36
6	1.60	0.00	103.18	101.85	101.66	100.46	74.40	0.00	103.99	103.12	74.30	0.00	103.36	103.48
7	1.60	0.00	103.59	101.81	101.68	100.58	71.40	0.00	104.01	103.09	71.30	0.00	103.31	103.25
8	1.60	0.00	103.66	101.92	101.66	100.51	80.70	0.00	103.85	102.96	77.90	0.00	103.24	103.14
9	1.80	0.00	103.88	101.96	101.57	100.59	81.70	0.00	103.51	102.85	80.20	0.00	103.14	103.08
10	1.70	0.00	104.24	101.85	101.70	100.66	81.60	0.00	103.51	102.99	80.30	0.00	103.32	103.42
11	1.60	0.00	105.36	101.94	101.70	100.71	81.60	0.00	103.63	103.12	80.40	0.00	?UNDEF	103.29
12	1.60	0.00	105.34	102.08	101.66	100.73	81.60	0.00	103.83	103.14	80.50	0.00	?UNDEF	103.30
13	1.60	0.00	105.10	102.24	101.85	100.74	82.80	0.00	103.87	103.21	81.80	0.00	?UNDEF	103.38
14	1.60	0.00	105.20	102.35	102.00	100.97	81.00	0.00	103.76	103.43	86.70	0.00	?UNDEF	103.45
15	1.60	0.00	105.20	102.53	102.21	101.15	74.90	0.00	103.74	103.45	86.40	0.00	103.65	103.62
16	1.60	0.00	105.24	102.68	102.26	101.19	68.20	0.00	103.57	103.44	83.50	0.00	103.81	103.60
17	1.60	0.00	105.31	102.74	102.54	101.23	69.70	0.00	103.57	103.32	83.40	0.00	?UNDEF	103.62
18	1.60	0.00	105.21	102.76	102.58	101.11	68.00	0.00	103.57	103.36	80.20	0.00	000.00	103.63
19	1.60	0.00	105.31	102.78	102.62	101.07	69.70	0.00	103.41	103.24	79.90	0.00	103.62	103.49
20	1.60	0.00	104.63	102.56	102.63	100.92	83.70	0.00	103.36	103.20	80.10	0.00	103.56	103.42
21	1.60	0.00	104.18	102.54	102.46	100.81	85.30	0.00	103.49	103.09	80.00	0.00	103.57	103.52
22	1.60	0.00	104.36	102.52	102.41	*****	88.00	0.00	103.33	102.96	81.60	0.00	?UNDEF	103.51
23	1.60	0.00	104.52	102.57	102.40	100.82	64.80	0.00	103.22	102.98	66.50	0.00	103.58	103.51
24	1.60	0.00	104.54	102.44	102.43	100.80	56.60	0.00	*****	102.83	63.20	0.00	103.45	103.54
	LOWER MONUMENTAL			ICE HARBOR			MCNARY			PASCO				
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	69.70	0.00	105.41	105.09	68.60	0.00	102.96	104.22	85.50	0.00	111.38	108.09	107.45	000.00
2	57.60	0.00	105.72	104.93	59.20	0.00	102.86	104.26	87.80	0.00	111.33	108.25	107.22	000.00
3	51.30	0.00	105.57	104.78	51.00	0.00	102.87	104.07	91.00	0.00	111.17	108.07	107.20	000.00
4	42.70	0.00	105.53	104.66	49.60	0.00	102.72	104.07	93.50	0.00	111.27	108.09	107.48	000.00
5	52.50	0.00	105.77	104.65	50.20	0.00	102.55	104.05	108.70	0.00	110.43	107.60	107.39	000.00
6	73.10	0.00	105.56	104.81	70.70	0.00	102.38	103.99	115.30	0.00	109.99	107.60	107.36	000.00
7	70.80	0.00	105.43	104.53	71.10	0.00	102.68	104.06	127.10	0.00	110.90	108.36	107.61	000.00
8	80.40	0.00	105.43	104.64	78.10	0.00	102.90	104.15	127.50	0.00	110.49	108.74	107.57	000.00
9	80.70	0.00	105.42	104.62	80.00	0.00	102.90	104.16	128.80	0.00	109.32	109.32	107.60	000.00
10	80.70	0.00	*****	104.61	84.60	0.00	102.77	104.20	128.80	0.00	108.80	109.44	107.63	099.51
11	86.20	0.00	105.30	104.90	87.10	0.00	102.80	104.36	144.00	0.00	108.22	109.70	107.67	107.58
12	84.80	0.00	000.00	104.78	89.00	0.00	102.80	104.45	149.00	0.00	108.24	109.57	108.00	108.27
13	86.40	0.00	105.48	104.97	90.20	0.00	102.99	104.46	142.60	0.00	108.47	109.21	108.32	108.33
14	90.40	0.00	105.70	105.16	92.00	0.00	103.01	104.48	132.60	0.00	108.09	109.01	108.35	108.34
15	88.60	0.00	105.50	105.09	91.70	0.00	103.05	104.49	128.20	0.00	111.70	108.99	108.08	108.49
16	88.30	0.00	105.63	105.09	91.70	0.00	103.07	104.49	128.80	0.00	110.98	109.79	107.94	108.56
17	88.20	0.00	105.69	105.00	88.80	0.00	103.20	104.45	119.40	0.00	110.16	109.66	107.80	108.53
18	88.60	0.00	105.62	104.98	79.30	0.00	103.08	104.49	120.70	0.00	110.35	109.01	107.85	108.58
19	90.30	0.00	105.54	104.88	79.20	0.00	103.10	104.49	122.30	0.00	110.18	108.86	107.80	108.46
20	90.60	0.00	105.55	104.73	78.50	0.00	103.14	104.53	119.60	0.00	110.04	108.45	107.55	108.25
21	88.00	0.00	105.55	104.73	88.90	0.00	103.12	104.38	117.00	0.00	110.28	108.16	107.52	108.07
22	87.50	0.00	105.27	104.61	87.40	0.00	103.11	104.38	115.90	0.00	108.90	107.86	107.43	107.79
23	76.70	0.00	105.18	104.45	81.70	0.00	103.12	104.37	80.50	0.00	107.58	108.23	107.29	107.83
24	64.20	0.00	105.00	104.43	68.70	0.00	102.91	104.29	70.40	0.00	108.72	108.18	107.01	107.83

13 MAY 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

13 MAY 2001

	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.70	0.00	104.06	102.20	102.63	100.99	70.70	0.00	103.96	103.50	62.20	0.00	000.00	104.16
2	1.60	0.00	103.96	102.12	102.28	100.83	53.50	0.00	103.76	103.12	53.20	0.00	104.15	103.83
3	1.60	0.00	103.89	101.88	102.01	100.61	50.00	0.00	103.58	103.34	50.80	0.00	103.89	103.62
4	1.60	0.00	103.80	101.68	101.76	100.51	49.60	0.00	103.52	102.97	51.70	0.00	103.74	103.56
5	1.60	0.00	103.85	101.42	101.38	100.46	49.30	0.00	103.45	103.21	51.00	0.00	103.58	103.50
6	1.70	0.00	103.89	101.32	101.23	100.27	50.30	0.00	103.53	103.16	49.90	0.00	103.49	103.60
7	1.60	0.00	104.09	101.21	100.98	100.32	49.90	0.00	103.42	103.15	50.30	0.00	103.26	103.16
8	1.60	0.00	104.60	101.47	101.09	100.62	53.70	0.00	103.34	103.22	57.80	0.00	103.05	103.27
9	1.60	0.00	104.83	101.82	101.36	101.01	53.90	0.00	103.46	103.35	55.10	0.00	102.75	103.25
10	1.60	0.00	105.37	102.25	101.47	101.52	60.30	0.00	103.47	103.32	59.30	0.00	?UNDEF	103.27
11	1.70	0.00	105.74	102.72	101.63	102.33	61.10	0.00	103.43	103.31	60.00	0.00	?UNDEF	103.42
12	1.60	0.00	105.93	103.15	101.77	102.79	62.60	0.00	103.51	103.53	60.60	0.00	?UNDEF	103.32
13	1.60	0.00	105.88	103.51	101.88	103.16	62.30	0.00	103.66	103.53	60.60	0.00	?UNDEF	103.37
14	1.60	0.00	105.68	103.88	102.31	103.36	61.10	0.00	103.81	103.46	63.60	0.00	?UNDEF	103.42
15	1.70	0.00	105.51	104.20	102.50	103.39	61.20	0.00	103.90	103.53	63.60	0.00	?UNDEF	103.50
16	1.60	0.00	105.69	104.22	102.78	103.42	62.90	0.00	103.82	103.59	60.50	0.00	?UNDEF	103.62
17	1.60	0.00	105.73	103.97	103.17	103.35	61.10	0.00	104.07	103.40	57.60	0.00	?UNDEF	103.52
18	1.60	0.00	105.53	103.89	103.25	103.17	61.80	0.00	104.31	103.39	58.00	0.00	?UNDEF	103.39
19	1.60	0.00	105.73	103.71	103.05	102.54	74.30	0.00	104.20	103.42	63.60	0.00	103.07	103.35
20	1.70	0.00	104.68	103.35	102.90	101.97	76.30	0.00	104.20	103.27	79.70	0.00	103.11	103.36
21	1.60	0.00	103.99	102.86	102.62	101.49	78.30	0.00	103.97	103.21	80.00	0.00	103.19	103.18
22	1.60	0.00	103.67	102.54	102.46	101.20	80.40	0.00	104.06	103.16	80.40	0.00	?UNDEF	103.16
23	1.60	0.00	103.37	102.41	102.39	101.05	72.50	0.00	103.85	103.18	69.50	0.00	000.00	103.33
24	1.60	0.00	103.36	102.27	102.32	100.93	68.70	0.00	104.40	103.09	68.60	0.00	103.41	103.40
	LOWER MONUMENTAL			ICE HARBOR			MCNARY			PASCO				
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	64.40	0.00	104.82	104.01	60.10	0.00	104.17	103.72	75.00	0.00	112.71	110.71	109.26	000.00
2	56.60	0.00	104.88	103.92	55.50	0.00	103.75	103.53	73.70	0.00	112.52	111.41	109.07	000.00
3	54.30	0.00	104.80	103.97	54.70	0.00	103.17	103.49	73.00	0.00	110.80	110.40	108.54	000.00
4	52.70	0.00	105.45	103.78	53.90	0.00	103.25	103.58	79.80	0.00	109.82	109.91	108.34	000.00
5	52.30	0.00	104.94	103.67	52.30	0.00	102.68	103.52	91.00	0.00	110.80	109.34	108.28	000.00
6	48.80	0.00	104.97	103.55	47.90	0.00	102.08	103.44	87.30	0.00	110.43	109.25	108.47	000.00
7	49.20	0.00	104.50	104.02	47.50	0.00	102.11	103.43	87.30	0.00	109.41	109.00	108.09	000.00
8	55.90	0.00	104.05	103.68	58.00	0.00	102.32	103.60	91.20	0.00	109.71	109.07	108.02	000.00
9	53.90	0.00	104.16	103.83	55.30	0.00	101.75	103.77	119.10	0.00	111.36	108.93	107.89	000.00
10	58.30	0.00	104.20	104.06	53.60	0.00	102.34	104.52	119.30	0.00	111.47	109.04	108.37	000.00
11	59.10	0.00	104.53	104.25	53.20	0.00	102.36	104.62	120.60	0.00	112.18	109.37	108.53	000.00
12	60.60	0.00	104.66	104.65	54.50	0.00	101.87	104.62	118.80	0.00	109.65	109.38	108.59	000.00
13	63.90	0.00	104.94	104.59	57.00	0.00	101.92	104.71	122.00	0.00	111.48	109.65	108.83	000.00
14	63.20	0.00	105.33	105.00	57.30	0.00	102.03	105.26	120.60	0.00	113.55	109.78	108.91	000.00
15	63.10	0.00	105.55	105.05	58.20	0.00	102.18	104.83	120.60	0.00	114.13	109.59	108.98	000.00
16	67.30	0.00	105.71	105.15	57.10	0.00	102.26	104.93	110.90	0.00	114.14	109.67	109.06	000.00
17	65.10	0.00	105.78	105.03	57.30	0.00	102.39	104.87	98.00	0.00	113.63	110.10	109.12	000.00
18	56.40	0.00	105.90	105.06	61.20	0.00	102.46	104.74	97.40	0.00	111.13	110.43	109.14	000.00
19	60.40	0.00	105.89	105.06	59.90	0.00	102.58	104.56	99.80	0.00	111.01	109.64	109.16	000.00
20	76.00	0.00	106.23	104.97	62.00	0.00	102.58	104.52	100.50	0.00	112.02	109.49	108.82	000.00
21	80.20	0.00	106.01	104.93	75.90	0.00	102.80	104.36	132.80	0.00	112.36	109.54	108.35	000.00
22	79.10	0.00	105.45	104.93	80.80	0.00	102.83	104.37	149.50	0.00	108.49	108.98	107.91	000.00
23	76.20	0.00	106.19	104.90	82.90	0.00	102.78	104.31	116.40	0.00	111.42	108.71	107.68	000.00
24	69.90	0.00	105.63	104.93	69.90	0.00	102.83	104.21	86.00	0.00	111.67	108.32	107.57	000.00

12 MAY 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

12 MAY 2001

	DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	
1	1.60	0.00	103.72	102.62	102.83	101.44	43.10	0.00	105.26	104.48	32.20	0.00	109.78	105.18	
2	1.70	0.00	103.77	102.49	102.54	101.19	39.50	0.00	104.92	104.27	30.00	0.00	108.18	105.09	
3	1.60	0.00	103.79	102.41	102.24	101.04	41.10	0.00	104.70	104.32	28.70	0.00	110.14	105.10	
4	1.70	0.00	104.05	102.25	102.04	100.91	38.90	0.00	104.60	104.08	32.20	0.00	110.60	105.29	
5	1.60	0.00	104.06	102.14	101.71	100.65	39.00	0.00	104.48	103.99	38.60	0.00	108.96	105.50	
6	1.70	0.00	104.23	102.00	101.43	100.68	46.70	0.00	104.34	103.97	44.40	0.00	106.31	105.49	
7	1.60	0.00	104.46	102.10	101.30	100.64	54.30	0.00	104.13	104.04	53.20	0.00	?UNDEF	105.42	
8	1.70	0.00	105.13	102.09	101.27	100.76	54.20	0.00	104.14	103.90	54.60	0.00	?UNDEF	105.09	
9	1.70	0.00	105.41	102.26	101.32	101.08	54.10	0.00	104.38	103.86	57.90	0.00	?UNDEF	105.18	
10	1.60	0.00	105.79	102.78	101.54	101.65	53.90	0.00	104.54	104.01	58.30	0.00	?UNDEF	105.07	
11	1.70	0.00	106.09	103.21	101.75	102.06	53.80	0.00	104.62	104.12	58.30	0.00	?UNDEF	105.23	
12	1.60	0.00	106.44	103.91	102.26	102.88	53.90	0.00	104.95	104.40	62.80	0.00	?UNDEF	105.41	
13	1.60	0.00	107.01	104.35	102.49	103.56	54.90	0.00	105.79	104.61	65.40	0.00	?UNDEF	105.29	
14	1.60	0.00	107.10	104.83	102.99	104.31	55.60	0.00	106.15	104.68	63.10	0.00	?UNDEF	105.51	
15	1.60	0.00	107.25	104.98	103.23	104.47	55.70	0.00	107.00	104.57	62.00	0.00	111.61	105.55	
16	1.70	0.00	107.22	104.99	103.56	104.55	53.80	0.00	107.57	104.70	62.40	0.00	111.82	105.70	
17	1.60	0.00	106.89	105.05	103.56	104.27	58.50	0.00	107.61	104.77	66.00	0.00	112.63	105.63	
18	1.60	0.00	106.68	104.58	103.63	103.65	62.70	0.00	107.02	104.66	66.20	0.00	113.12	105.74	
19	1.60	0.00	106.89	104.11	103.65	103.14	65.90	0.00	106.56	104.68	64.50	0.00	112.54	105.47	
20	1.70	0.00	105.28	103.50	103.62	102.61	63.40	0.00	105.73	104.51	64.80	0.00	112.56	105.33	
21	1.70	0.00	104.71	103.05	103.43	102.11	73.50	0.00	105.82	104.36	75.80	0.00	112.63	105.43	
22	1.60	0.00	104.24	102.74	103.25	101.82	75.20	0.00	105.29	104.27	77.30	0.00	110.40	105.33	
23	1.60	0.00	104.02	102.59	103.11	101.55	73.60	0.00	105.21	104.17	66.00	0.00	?UNDEF	104.87	
24	1.60	0.00	104.13	102.43	102.86	101.29	68.20	0.00	104.77	103.72	61.30	0.00	000.00	104.39	

HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO	
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT
1	31.50	0.00	104.67	103.31	30.20	0.00	102.40	103.26	63.30	0.00	114.40	112.82	109.75	000.00
2	29.10	0.00	105.76	103.32	24.40	0.00	102.57	103.29	62.90	0.00	114.00	112.66	109.61	000.00
3	26.90	0.00	106.20	103.44	21.00	0.00	102.47	103.30	84.50	0.00	113.31	112.90	109.70	000.00
4	26.20	0.00	105.91	103.32	20.80	0.00	102.43	103.12	83.10	0.00	113.21	112.38	109.57	000.00
5	26.60	0.00	105.82	103.16	18.90	0.00	102.29	103.15	87.30	0.00	112.93	112.12	109.57	000.00
6	35.20	0.00	105.30	103.32	21.00	0.00	102.09	103.08	93.20	0.00	110.50	112.09	109.58	000.00
7	48.00	0.00	104.99	103.37	25.20	0.00	101.92	103.61	95.70	0.00	109.41	111.94	109.54	000.00
8	54.40	0.00	105.28	103.47	38.90	0.00	101.95	103.80	101.00	0.00	109.25	111.68	109.69	000.00
9	61.20	0.00	104.30	103.71	55.90	0.00	102.91	104.11	131.80	0.00	108.84	111.16	109.95	000.00
10	62.90	0.00	105.72	103.81	68.10	0.00	103.14	104.52	129.60	0.00	109.16	111.54	110.13	000.00
11	63.20	0.00	105.76	104.17	72.00	0.00	103.32	104.49	129.30	0.00	111.47	111.36	110.32	000.00
12	70.30	0.00	104.57	104.54	78.00	0.00	102.16	104.71	123.70	0.00	110.32	111.02	110.55	000.00
13	70.50	0.00	104.39	104.76	79.70	0.00	102.92	104.65	123.50	0.00	110.50	111.13	110.80	000.00
14	71.10	0.00	104.69	104.93	81.20	0.00	102.73	104.93	142.10	0.00	110.42	110.69	110.84	000.00
15	72.40	0.00	105.18	105.16	79.80	0.00	104.17	105.50	137.10	0.00	117.32	110.81	110.80	000.00
16	72.20	0.00	105.29	105.33	77.10	0.00	104.21	105.17	146.30	0.00	110.26	111.05	110.71	000.00
17	70.30	0.00	106.08	105.23	75.40	0.00	107.17	104.93	163.20	0.00	109.77	113.67	110.63	000.00
18	72.00	0.00	106.42	105.08	71.30	0.00	105.33	104.94	161.20	0.00	109.20	111.78	110.50	000.00
19	70.50	0.00	106.41	104.91	72.50	0.00	103.78	104.75	159.80	0.00	114.28	114.28	110.43	000.00
20	70.60	0.00	106.80	104.96	69.80	0.00	105.19	104.72	148.00	0.00	111.31	115.61	110.14	000.00
21	74.10	0.00	106.05	104.85	72.20	0.00	105.09	104.45	148.30	0.00	117.28	113.79	110.06	000.00
22	76.80	0.00	105.35	104.65	72.10	0.00	104.90	104.13	145.80	0.00	118.37	111.66	109.70	000.00
23	67.30	0.00	105.19	104.35	66.20	0.00	105.01	103.86	87.60	0.00	114.80	111.20	109.64	000.00
24	63.40	0.00	105.04	104.17	57.70	0.00	104.56	103.72	70.70	0.00	113.24	110.77	109.51	000.00

11 MAY 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

11 MAY 2001

	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.60	0.00	102.52	101.96	102.03	100.70	41.90	0.00	104.07	103.16	40.20	0.00	103.82	103.27
2	1.70	0.00	102.37	101.92	101.85	100.59	41.00	0.00	104.09	103.04	40.70	0.00	103.74	103.27
3	1.60	0.00	102.33	101.77	101.47	100.29	39.50	0.00	103.94	102.94	39.60	0.00	103.62	103.28
4	1.70	0.00	102.36	101.61	101.30	100.15	35.50	0.00	104.17	103.61	41.60	0.00	103.65	103.18
5	1.60	0.00	102.52	101.51	101.00	100.07	40.30	0.00	104.20	103.14	42.60	0.00	103.69	103.38
6	1.60	0.00	102.36	101.55	100.96	099.95	44.10	0.00	104.09	103.02	44.20	0.00	103.68	103.39
7	1.70	0.00	102.51	101.36	100.78	099.95	51.40	0.00	104.32	103.17	46.90	0.00	103.57	103.66
8	1.60	0.00	103.07	101.67	100.95	100.51	61.20	0.00	104.11	103.31	64.90	0.00	103.72	104.09
9	1.60	0.00	103.86	102.16	101.21	101.26	60.40	0.00	104.15	103.52	62.30	0.00	103.92	104.14
10	1.60	0.00	104.64	102.65	101.63	102.00	60.40	0.00	104.75	103.56	65.50	0.00	006.43	104.99
11	1.60	0.00	105.28	103.11	102.18	102.72	60.50	0.00	105.19	103.74	65.80	0.00	?UNDEF	104.55
12	1.70	0.00	105.78	103.77	102.54	103.44	60.30	0.00	105.40	103.95	65.60	0.00	104.47	104.58
13	1.60	0.00	106.18	104.27	102.87	104.14	60.50	0.00	000.00	104.14	65.40	0.00	?UNDEF	104.77
14	1.60	0.00	106.57	104.67	103.53	104.75	61.80	0.00	105.93	104.09	68.70	0.00	000.00	104.73
15	1.60	0.00	106.82	105.22	103.81	105.13	67.10	0.00	106.62	104.18	73.30	0.00	104.70	104.97
16	1.60	0.00	106.95	105.31	104.19	105.53	67.40	0.00	106.28	104.44	72.30	0.00	104.86	104.94
17	1.70	0.00	106.89	105.30	104.45	105.31	67.60	0.00	107.05	104.62	72.60	0.00	104.92	105.03
18	1.60	0.00	106.52	105.07	104.33	105.13	67.40	0.00	107.80	104.85	72.80	0.00	104.97	104.95
19	1.60	0.00	106.89	104.72	104.14	104.48	61.00	0.00	106.50	104.59	68.50	0.00	105.16	105.14
20	1.60	0.00	104.87	104.12	103.81	103.61	64.50	0.00	106.74	104.55	68.30	0.00	105.31	105.13
21	1.70	0.00	104.28	103.54	103.55	102.98	61.80	0.00	105.79	104.76	64.50	0.00	109.51	105.17
22	1.60	0.00	104.00	103.28	103.27	102.42	59.00	0.00	104.75	104.53	57.30	0.00	109.24	105.21
23	1.60	0.00	103.76	102.88	103.06	101.92	52.70	0.00	105.48	104.15	48.50	0.00	109.57	105.21
24	1.60	0.00	103.73	102.74	102.94	101.68	52.20	0.00	105.38	104.17	38.10	0.00	109.58	105.36
	LOWER MONUMENTAL			ICE HARBOR			MCNARY			PASCO				
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	35.80	0.00	102.70	101.86	33.90	0.00	104.16	102.63	65.30	0.00	111.88	115.71	108.19	109.48
2	36.00	0.00	102.30	101.83	25.20	0.00	104.01	102.50	63.20	0.00	112.29	112.54	108.19	109.33
3	31.90	0.00	102.35	102.37	25.00	0.00	103.64	102.35	61.30	0.00	111.23	112.92	107.91	109.23
4	34.40	0.00	102.23	101.73	21.10	0.00	102.83	102.66	77.60	0.00	110.48	113.65	107.69	108.98
5	35.20	0.00	102.41	101.73	25.20	0.00	102.47	102.56	79.80	0.00	111.16	112.04	107.41	108.87
6	41.10	0.00	102.29	102.55	34.40	0.00	102.60	102.60	79.00	0.00	110.62	110.79	107.55	108.78
7	44.60	0.00	102.70	102.01	40.90	0.00	102.84	102.72	107.00	0.00	110.46	112.06	107.51	108.49
8	62.30	0.00	102.88	102.46	56.30	0.00	103.28	103.13	119.90	0.00	107.54	112.72	107.67	108.49
9	70.40	0.00	103.04	102.66	73.90	0.00	102.91	103.22	123.10	0.00	113.83	111.13	107.95	108.49
10	79.30	0.00	103.24	102.93	79.30	0.00	102.83	103.59	120.10	0.00	114.32	113.71	108.41	108.68
11	78.40	0.00	102.58	102.99	79.80	0.00	102.30	103.50	127.10	0.00	115.33	113.47	108.68	109.11
12	78.30	0.00	102.80	103.11	79.40	0.00	103.03	103.85	127.70	0.00	117.19	114.81	109.25	109.43
13	78.20	0.00	102.88	103.41	81.40	0.00	103.01	104.08	126.40	0.00	117.04	115.16	109.58	109.84
14	78.00	0.00	103.07	103.61	81.20	0.00	103.94	104.44	128.90	0.00	117.95	116.20	109.99	110.21
15	78.60	0.00	104.13	103.73	79.80	0.00	102.44	104.64	128.50	0.00	113.54	116.73	110.24	110.33
16	76.20	0.00	104.38	104.58	80.00	0.00	103.75	104.65	124.50	0.00	111.11	115.10	110.37	110.70
17	76.00	0.00	105.09	104.03	80.10	0.00	105.14	104.50	126.80	0.00	119.24	118.02	110.44	110.80
18	74.30	0.00	104.80	104.01	83.10	0.00	103.76	104.26	146.00	0.00	111.74	117.84	110.52	110.90
19	75.00	0.00	104.01	104.13	80.20	0.00	104.37	104.06	151.80	0.00	109.22	118.32	110.73	110.87
20	74.60	0.00	103.63	103.58	81.20	0.00	102.93	103.78	151.10	0.00	110.05	117.94	110.90	110.72
21	67.80	0.00	104.23	103.39	69.70	0.00	102.04	103.70	145.30	0.00	109.56	117.60	110.67	000.00
22	62.40	0.00	104.37	103.49	64.30	0.00	103.08	103.43	119.30	0.00	111.04	115.46	110.41	000.00
23	49.10	0.00	104.37	103.67	51.50	0.00	102.23	103.32	78.00	0.00	115.58	114.00	110.28	000.00
24	42.00	0.00	106.35	103.43	36.10	0.00	101.99	103.26	69.30	0.00	115.10	113.21	110.32	000.00

10 MAY 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

10 MAY 2001

	DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	
1	1.70	0.00	103.33	101.87	101.95	100.90	40.00	0.00	103.23	101.49	39.00	0.00	102.57	101.99	
2	1.60	0.00	103.35	101.67	101.71	100.65	40.70	0.00	102.88	101.58	45.40	0.00	102.62	101.91	
3	1.60	0.00	103.14	101.34	101.52	100.43	40.70	0.00	102.79	101.35	46.40	0.00	102.70	101.81	
4	1.70	0.00	102.91	101.11	101.10	100.20	38.70	0.00	102.70	101.12	37.70	0.00	102.35	101.79	
5	1.60	0.00	102.96	101.07	100.76	099.84	44.30	0.00	102.64	101.05	42.40	0.00	102.43	101.73	
6	1.60	0.00	103.04	100.85	100.55	099.64	41.60	0.00	102.56	100.96	39.40	0.00	102.51	101.76	
7	1.60	0.00	103.33	100.76	100.46	099.54	50.80	0.00	102.37	101.19	42.50	0.00	102.31	101.72	
8	1.70	0.00	103.98	100.71	100.59	099.75	51.80	0.00	102.32	101.28	54.00	0.00	102.29	101.82	
9	1.60	0.00	104.45	101.12	100.70	100.28	53.80	0.00	102.45	101.40	53.60	0.00	102.40	101.92	
10	1.70	0.00	105.18	101.64	100.93	101.23	54.00	0.00	102.45	000.00	57.70	0.00	102.37	102.46	
11	1.60	0.00	105.98	102.30	101.61	101.86	54.00	0.00	102.57	101.67	57.80	0.00	000.00	102.76	
12	1.60	0.00	106.57	103.39	102.07	102.75	53.90	0.00	102.61	101.85	57.80	0.00	000.00	102.92	
13	1.70	0.00	107.00	104.08	102.47	103.44	50.70	0.00	102.95	101.99	59.30	0.00	103.36	102.93	
14	1.60	0.00	107.21	104.63	103.04	104.11	51.10	0.00	103.07	101.99	59.30	0.00	103.12	103.10	
15	1.60	0.00	106.95	105.00	103.62	104.71	50.40	0.00	103.29	102.81	58.90	0.00	102.91	103.20	
16	1.60	0.00	106.73	105.01	103.77	104.91	61.40	0.00	103.60	102.83	63.30	0.00	103.08	103.19	
17	1.70	0.00	106.58	104.84	103.86	104.75	64.00	0.00	103.51	103.09	65.10	0.00	103.25	103.20	
18	1.60	0.00	106.08	104.27	103.93	104.39	62.20	0.00	103.54	102.91	64.60	0.00	103.27	103.37	
19	1.60	0.00	106.58	103.85	103.77	103.84	63.10	0.00	103.67	102.73	64.40	0.00	103.41	103.54	
20	1.60	0.00	103.97	103.43	103.28	102.98	61.80	0.00	103.88	102.70	72.80	0.00	103.41	103.28	
21	1.60	0.00	103.21	102.98	102.95	102.31	63.70	0.00	103.76	102.70	70.20	0.00	103.43	103.21	
22	1.70	0.00	102.91	102.54	102.68	101.74	62.20	0.00	103.76	102.69	69.10	0.00	003.80	103.24	
23	1.60	0.00	102.67	102.25	102.54	101.33	63.60	0.00	104.30	102.85	45.50	0.00	103.69	103.40	
24	1.60	0.00	102.67	102.17	102.37	101.10	61.00	0.00	104.84	102.87	37.20	0.00	103.82	103.35	
	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT	
1	40.70	0.00	101.94	100.92	40.70	0.00	102.48	102.41	76.00	0.00	108.78	107.03	106.56	110.21	
2	43.20	0.00	101.75	100.88	37.90	0.00	102.32	102.52	74.80	0.00	106.62	106.92	106.67	110.07	
3	45.80	0.00	101.51	101.14	37.70	0.00	102.66	102.45	74.90	0.00	106.30	107.10	106.58	109.60	
4	42.10	0.00	101.59	100.80	32.50	0.00	102.59	102.31	74.90	0.00	108.64	108.66	106.67	109.24	
5	44.90	0.00	101.69	100.84	37.40	0.00	102.55	102.29	96.20	0.00	108.79	108.24	106.50	108.94	
6	41.20	0.00	101.33	100.77	39.50	0.00	102.63	102.20	95.10	0.00	108.66	107.92	106.43	108.51	
7	49.60	0.00	101.39	100.95	45.60	0.00	102.60	102.30	118.90	0.00	108.76	107.56	106.64	108.20	
8	52.80	0.00	101.24	101.23	49.40	0.00	102.54	102.78	109.30	0.00	109.91	107.25	106.55	108.13	
9	56.30	0.00	100.95	101.38	54.00	0.00	102.79	102.98	129.20	0.00	111.40	107.49	106.71	108.10	
10	62.90	0.00	101.21	102.08	63.60	0.00	102.51	103.68	130.30	0.00	111.58	110.51	107.11	108.40	
11	61.50	0.00	101.49	102.04	66.00	0.00	102.83	103.86	128.80	0.00	112.99	110.08	107.45	108.79	
12	61.40	0.00	101.55	102.34	66.00	0.00	102.82	104.18	133.10	0.00	112.10	109.57	107.77	109.09	
13	62.90	0.00	101.57	102.56	68.20	0.00	102.91	104.38	130.10	0.00	115.03	109.86	108.05	109.42	
14	63.00	0.00	101.83	102.62	68.40	0.00	103.18	104.75	124.90	0.00	115.39	109.13	108.37	109.77	
15	64.70	0.00	101.92	102.98	68.40	0.00	102.61	104.59	124.10	0.00	116.21	109.33	108.53	109.80	
16	66.70	0.00	101.79	102.74	64.80	0.00	102.89	104.48	124.30	0.00	117.19	108.86	108.49	110.02	
17	66.60	0.00	102.11	102.72	64.40	0.00	102.42	104.27	124.30	0.00	115.44	109.83	108.44	110.05	
18	69.40	0.00	101.75	102.60	66.10	0.00	102.30	103.89	123.30	0.00	113.38	111.26	108.45	*****	
19	70.20	0.00	102.03	102.36	65.90	0.00	102.47	103.49	122.20	0.00	116.87	110.48	108.64	110.11	
20	74.20	0.00	102.42	102.18	72.60	0.00	101.92	103.11	114.90	0.00	114.40	108.77	108.54	109.99	
21	74.70	0.00	102.36	102.08	73.30	0.00	102.21	102.72	107.60	0.00	114.50	114.15	108.37	109.84	
22	74.10	0.00	102.42	102.04	72.20	0.00	102.63	102.55	90.00	0.00	115.00	114.72	108.23	109.68	
23	50.60	0.00	102.67	102.01	54.70	0.00	103.56	102.59	61.60	0.00	110.33	115.25	108.10	109.55	
24	41.70	0.00	102.31	101.99	42.60	0.00	104.01	102.50	62.10	0.00	111.04	115.78	108.12	109.55	

09 MAY 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

09 MAY 2001

DWRSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	
1	1.60	0.00	102.93	101.86	101.97	101.16	33.10	0.00	102.88	102.22	28.40	0.00	101.31	101.24	
2	1.70	0.00	103.20	101.71	101.70	100.92	34.60	0.00	102.85	102.06	35.40	0.00	101.41	101.08	
3	1.70	0.00	103.02	101.68	101.55	100.62	36.70	0.00	102.97	101.79	38.30	0.00	101.29	101.07	
4	1.70	0.00	102.61	101.56	101.32	100.32	35.90	0.00	102.77	101.74	38.60	0.00	101.15	101.11	
5	1.60	0.00	102.42	101.50	100.94	100.18	37.60	0.00	102.52	101.86	38.70	0.00	101.11	101.07	
6	1.60	0.00	102.62	101.30	100.69	099.99	35.80	0.00	102.30	101.81	36.70	0.00	101.06	101.00	
7	1.70	0.00	102.85	101.27	100.65	099.89	45.90	0.00	102.11	101.93	45.20	0.00	101.15	100.98	
8	1.70	0.00	103.23	101.53	100.75	100.16	50.00	0.00	102.11	101.86	52.00	0.00	101.24	101.08	
9	1.70	0.00	103.85	101.94	101.13	100.86	51.20	0.00	102.26	101.87	54.40	0.00	101.27	101.23	
10	1.60	0.00	104.42	102.52	101.51	101.64	50.40	0.00	102.45	102.07	55.10	0.00	101.30	101.24	
11	1.70	0.00	105.26	103.09	102.08	102.47	50.50	0.00	102.86	102.05	61.50	0.00	101.26	101.38	
12	1.60	0.00	105.82	103.84	102.45	103.19	51.20	0.00	102.74	102.49	60.70	0.00	101.35	101.56	
13	1.60	0.00	106.02	104.44	102.70	103.95	49.60	0.00	102.78	102.56	51.80	0.00	101.35	101.75	
14	1.70	0.00	106.15	104.71	103.07	104.47	50.40	0.00	102.54	102.44	54.70	0.00	101.54	101.75	
15	1.60	0.00	106.33	104.99	103.32	104.89	51.20	0.00	102.40	102.29	55.00	0.00	?UNDEF	101.77	
16	1.60	0.00	106.32	104.69	103.42	105.09	50.40	0.00	102.42	102.20	52.30	0.00	?UNDEF	101.95	
17	1.60	0.00	106.21	104.64	103.62	105.12	50.50	0.00	102.36	102.40	56.20	0.00	?UNDEF	102.04	
18	1.60	0.00	106.09	104.25	103.48	104.75	59.50	0.00	102.37	102.31	54.10	0.00	?UNDEF	102.06	
19	1.70	0.00	106.21	103.62	103.40	104.15	59.50	0.00	102.41	102.04	59.20	0.00	101.97	102.06	
20	1.70	0.00	104.80	103.16	102.99	103.25	62.70	0.00	102.37	101.77	59.70	0.00	101.84	101.98	
21	1.70	0.00	103.93	102.71	102.69	102.52	60.10	0.00	102.52	101.73	59.30	0.00	101.94	101.90	
22	1.60	0.00	103.37	102.38	102.38	101.90	61.60	0.00	102.64	101.74	55.50	0.00	102.19	101.87	
23	1.70	0.00	103.36	102.28	102.23	101.64	58.60	0.00	102.76	101.73	51.80	0.00	102.36	101.99	
24	1.60	0.00	103.36	101.96	102.10	101.24	57.70	0.00	103.14	101.72	53.60	0.00	102.51	101.94	
LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT	
1	32.40	0.00	100.60	100.36	28.90	0.00	102.43	102.28	66.90	0.00	107.87	105.63	105.81	110.60	
2	35.50	0.00	100.58	100.43	30.50	0.00	102.44	102.28	79.00	0.00	107.76	106.95	105.79	110.34	
3	37.10	0.00	100.91	100.73	29.20	0.00	102.75	102.26	97.50	0.00	106.56	107.59	105.78	110.20	
4	36.10	0.00	101.11	100.13	33.10	0.00	102.47	102.31	98.90	0.00	107.88	108.01	105.63	109.92	
5	37.60	0.00	100.95	100.05	33.60	0.00	102.40	102.48	99.90	0.00	106.44	106.67	105.34	109.65	
6	35.30	0.00	101.20	099.88	38.30	0.00	102.64	102.47	100.00	0.00	108.87	106.99	105.27	109.45	
7	41.90	0.00	100.36	100.20	38.50	0.00	102.75	102.50	108.80	0.00	108.71	107.78	105.37	109.27	
8	49.80	0.00	100.45	100.33	44.50	0.00	102.82	103.07	111.60	0.00	108.48	107.99	105.61	109.26	
9	59.50	0.00	100.76	100.53	60.70	0.00	103.37	103.29	112.80	0.00	107.34	106.93	105.89	109.38	
10	62.00	0.00	100.76	101.28	62.90	0.00	103.10	104.78	123.80	0.00	108.84	107.09	106.01	109.51	
11	61.40	0.00	100.37	101.35	64.90	0.00	102.33	104.24	125.50	0.00	109.90	107.24	106.33	109.93	
12	63.50	0.00	100.70	101.55	65.10	0.00	102.92	104.42	125.30	0.00	107.97	106.75	106.38	110.29	
13	60.80	0.00	100.87	101.84	65.20	0.00	104.18	104.58	125.20	0.00	111.86	107.18	106.85	110.74	
14	62.50	0.00	100.88	102.29	66.40	0.00	103.95	104.70	136.00	0.00	112.14	106.92	107.13	110.93	
15	60.60	0.00	101.00	101.79	67.30	0.00	103.16	104.54	136.70	0.00	113.66	106.61	107.21	110.99	
16	60.10	0.00	101.67	102.18	65.80	0.00	102.43	104.78	136.00	0.00	109.49	107.24	107.42	111.45	
17	55.30	0.00	101.85	102.30	56.20	0.00	103.21	104.56	135.80	0.00	114.02	108.15	107.53	111.82	
18	55.10	0.00	102.01	102.05	53.90	0.00	104.17	104.29	135.90	0.00	115.55	108.35	107.59	111.84	
19	55.30	0.00	102.19	101.81	53.90	0.00	102.76	104.05	136.10	0.00	108.80	110.64	107.76	112.18	
20	58.30	0.00	101.90	101.62	55.30	0.00	103.69	103.53	130.10	0.00	107.06	114.23	107.76	111.97	
21	58.50	0.00	101.84	101.94	53.80	0.00	103.60	103.14	127.70	0.00	106.75	112.86	107.80	111.61	
22	54.90	0.00	101.98	101.46	53.70	0.00	104.07	103.09	102.40	0.00	111.20	108.70	107.35	111.23	
23	51.90	0.00	101.65	101.41	54.70	0.00	103.91	102.88	89.20	0.00	110.62	107.39	107.16	110.89	
24	51.60	0.00	101.97	101.15	54.70	0.00	102.57	102.68	86.80	0.00	109.79	107.27	106.79	110.89	

08 MAY 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

08 MAY 2001

	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR :	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1 :	1.70	0.00	001.21	102.22	102.04	101.47	27.50	0.00	104.01	102.81	30.40	0.00	105.16	101.13
2 :	1.70	0.00	001.21	102.13	101.77	101.08	33.10	0.00	103.75	102.71	30.50	0.00	105.34	101.01
3 :	1.60	0.00	001.21	101.99	101.67	100.80	37.50	0.00	103.49	102.63	29.10	0.00	104.51	101.01
4 :	1.60	0.00	001.21	101.87	101.39	100.55	49.10	0.00	102.98	102.72	29.50	0.00	102.64	100.99
5 :	1.70	0.00	001.21	101.77	101.16	100.44	49.40	0.00	102.82	102.59	40.10	0.00	000.00	101.01
6 :	1.60	0.00	001.21	101.77	101.08	100.42	58.20	0.00	102.68	102.60	40.70	0.00	103.72	100.99
7 :	1.60	0.00	001.21	101.75	100.89	100.39	67.00	0.00	102.64	102.56	62.60	0.00	103.43	101.09
8 :	1.60	0.00	001.21	101.87	101.00	100.37	65.00	0.00	102.64	102.52	64.50	0.00	103.67	101.09
9 :	1.60	0.00	001.21	000.00	101.19	100.79	59.50	0.00	102.68	102.56	64.70	0.00	104.15	101.29
10 :	1.70	0.00	001.22	102.21	101.46	101.50	56.50	0.00	102.84	102.64	65.00	0.00	104.14	101.31
11 :	1.60	0.00	001.22	102.51	101.68	102.09	48.50	0.00	103.17	103.46	59.30	0.00	?UNDEF	101.29
12 :	1.60	0.00	105.30	103.19	101.89	102.83	45.20	0.00	103.06	103.50	59.10	0.00	?UNDEF	101.35
13 :	1.60	0.00	105.51	104.06	102.15	103.79	45.40	0.00	103.01	103.27	60.10	0.00	?UNDEF	101.40
14 :	1.60	0.00	105.59	104.36	102.54	104.39	46.30	0.00	102.90	103.05	51.30	0.00	?UNDEF	101.47
15 :	1.70	0.00	105.68	104.64	102.71	104.58	45.20	0.00	102.97	103.53	51.30	0.00	?UNDEF	101.55
16 :	1.60	0.00	105.91	104.73	103.11	104.92	45.20	0.00	103.03	103.21	54.00	0.00	?UNDEF	101.65
17 :	1.60	0.00	105.88	104.62	103.26	105.11	49.30	0.00	102.93	103.24	50.80	0.00	?UNDEF	101.71
18 :	1.60	0.00	105.76	104.26	103.30	104.90	49.50	0.00	102.99	103.06	54.10	0.00	?UNDEF	101.65
19 :	1.70	0.00	105.88	103.88	103.13	104.41	49.90	0.00	103.21	102.67	51.00	0.00	101.19	101.72
20 :	1.60	0.00	104.11	103.31	102.75	103.60	49.90	0.00	103.46	102.69	53.40	0.00	101.27	101.57
21 :	1.60	0.00	103.54	102.89	102.45	102.92	50.10	0.00	103.34	102.60	54.00	0.00	101.30	101.54
22 :	1.60	0.00	103.44	102.47	001.50	102.51	50.90	0.00	103.09	102.64	47.60	0.00	101.38	101.45
23 :	1.70	0.00	103.34	102.25	102.12	*****	51.20	0.00	103.96	102.51	34.10	0.00	101.41	101.37
24 :	1.70	0.00	103.05	102.06	102.09	101.50	48.00	0.00	103.21	102.32	32.40	0.00	101.34	101.27
	LOWER MONUMENTAL			ICE HARBOR			MCNARY			PASCO				
HOUR :	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT		
1 :	23.80	0.00	102.67 099.99	12.70	0.00	104.60 102.29	64.00	0.00	117.58	109.42	105.98	110.17		
2 :	22.90	0.00	102.93 099.97	12.60	0.00	104.06 102.01	63.00	0.00	114.67	109.66	106.00	110.05		
3 :	23.40	0.00	102.12 100.45	12.40	0.00	103.76 101.85	79.10	0.00	112.93	113.21	105.84	109.85		
4 :	27.60	0.00	101.60 099.85	12.40	0.00	103.35 101.84	79.60	0.00	109.73	114.01	106.07	109.77		
5 :	33.10	0.00	101.20 100.09	12.90	0.00	103.21 102.21	80.30	0.00	108.60	113.10	106.09	109.49		
6 :	33.90	0.00	100.93 099.99	22.00	0.00	103.50 102.38	92.80	0.00	105.98	112.27	106.10	109.36		
7 :	49.50	0.00	099.84 100.74	33.50	0.00	103.37 102.69	121.90	0.00	105.62	111.61	106.21	109.35		
8 :	64.50	0.00	100.23 100.48	52.50	0.00	103.15 103.37	125.10	0.00	105.99	112.34	106.31	109.30		
9 :	70.00	0.00	100.65 100.44	72.00	0.00	102.88 103.32	120.70	0.00	107.66	111.83	106.30	109.42		
10 :	70.50	0.00	101.21 100.68	73.30	0.00	102.23 103.70	120.50	0.00	107.14	111.05	106.46	109.67		
11 :	70.40	0.00	100.71 101.01	72.50	0.00	102.69 103.62	120.90	0.00	114.43	110.60	106.79	110.04		
12 :	72.30	0.00	100.91 101.09	74.00	0.00	103.83 103.69	119.30	0.00	115.60	110.68	107.27	110.36		
13 :	72.10	0.00	100.71 101.21	71.90	0.00	104.70 103.80	130.70	0.00	115.88	110.98	107.56	110.74		
14 :	72.40	0.00	100.63 101.31	71.90	0.00	104.67 104.20	131.00	0.00	115.00	110.06	107.51	111.08		
15 :	70.80	0.00	100.58 101.31	73.20	0.00	105.18 104.02	132.30	0.00	113.22	108.34	107.45	111.63		
16 :	59.60	0.00	099.85 101.52	72.50	0.00	105.13 104.09	131.80	0.00	113.72	108.33	107.26	112.22		
17 :	50.60	0.00	101.26 101.65	62.40	0.00	102.91 104.16	131.80	0.00	112.13	107.86	107.08	112.29		
18 :	50.90	0.00	101.03 101.30	58.80	0.00	102.61 103.80	121.80	0.00	111.10	107.77	106.87	112.28		
19 :	49.70	0.00	101.27 101.03	58.70	0.00	102.26 103.62	115.70	0.00	110.46	107.53	106.53	112.07		
20 :	49.80	0.00	101.65 100.71	51.60	0.00	102.15 103.15	115.60	0.00	110.18	107.06	106.18	111.76		
21 :	49.40	0.00	101.64 100.68	51.10	0.00	102.07 102.83	115.00	0.00	109.75	106.86	105.81	111.60		
22 :	44.20	0.00	102.28 100.51	48.90	0.00	102.07 102.83	113.70	0.00	109.91	106.67	105.64	111.26		
23 :	35.10	0.00	102.22 100.40	30.00	0.00	102.52 102.62	79.90	0.00	109.58	105.95	105.69	111.05		
24 :	35.20	0.00	100.55 100.92	29.40	0.00	102.50 102.47	67.40	0.00	108.51	105.82	105.58	111.05		

07 MAY 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

07 MAY 2001

	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.60	0.00	103.57	101.30	101.67	099.13	39.60	0.00	105.09	101.63	37.80	0.00	099.59	099.64
2	1.60	0.00	103.41	101.17	101.45	098.75	37.10	0.00	103.99	101.76	36.90	0.00	099.71	099.50
3	1.60	0.00	103.22	101.09	101.17	098.40	31.70	0.00	103.83	101.84	33.40	0.00	100.08	099.47
4	1.60	0.00	103.31	100.94	100.81	098.14	28.60	0.00	103.64	101.84	28.70	0.00	099.48	099.47
5	1.60	0.00	103.24	100.70	100.68	097.92	29.00	0.00	103.21	102.07	28.40	0.00	2UNDEF	099.43
6	1.60	0.00	103.32	100.66	100.32	097.59	33.40	0.00	103.85	102.13	31.70	0.00	099.87	099.42
7	1.60	0.00	103.43	100.79	100.28	097.61	42.80	0.00	103.97	102.27	42.70	0.00	099.81	099.39
8	1.60	0.00	103.55	101.00	100.35	097.67	48.40	0.00	103.54	102.90	49.10	0.00	099.72	099.39
9	1.60	0.00	104.11	101.40	100.75	098.27	61.10	0.00	103.30	102.89	60.20	0.00	099.99	099.64
10	1.70	0.00	104.85	102.20	101.17	099.11	60.60	0.00	103.54	102.81	60.40	0.00	100.68	099.80
11	1.70	0.00	105.74	102.77	101.77	099.95	60.60	0.00	103.86	102.81	61.70	0.00	101.63	100.00
12	1.70	0.00	105.40	103.55	102.27	100.93	60.60	0.00	104.01	102.86	61.50	0.00	102.99	100.15
13	1.70	0.00	105.24	104.32	102.58	101.84	52.10	0.00	103.91	103.12	50.30	0.00	103.75	100.40
14	1.70	0.00	105.19	104.87	103.11	102.57	52.10	0.00	104.62	103.47	53.10	0.00	104.21	100.58
15	1.70	0.00	105.02	105.13	103.50	103.20	51.20	0.00	106.04	103.24	53.40	0.00	101.36	100.68
16	1.70	0.00	001.08	104.99	103.71	103.58	42.50	0.00	105.32	103.32	51.70	0.00	*****	100.73
17	1.70	0.00	001.08	104.82	103.75	104.41	41.60	0.00	105.02	103.39	51.40	0.00	100.95	100.94
18	1.70	0.00	001.08	104.35	103.70	104.62	39.80	0.00	103.97	103.33	50.00	0.00	103.90	101.00
19	1.70	0.00	001.08	104.15	103.61	104.24	40.40	0.00	104.30	103.17	43.10	0.00	*****	100.92
20	1.70	0.00	001.08	103.64	103.28	103.72	39.80	0.00	105.01	103.00	41.60	0.00	106.16	100.95
21	1.70	0.00	001.21	103.21	103.04	102.90	41.60	0.00	104.88	102.98	40.00	0.00	106.72	100.83
22	1.70	0.00	001.21	102.88	102.77	102.49	34.30	0.00	104.06	103.04	42.90	0.00	106.08	100.87
23	1.70	0.00	001.21	102.64	102.50	102.16	32.80	0.00	103.97	102.91	39.00	0.00	105.66	101.12
24	1.70	0.00	001.21	102.36	102.23	101.78	35.70	0.00	103.99	102.81	29.20	0.00	104.62	101.12
	LOWER MONUMENTAL			ICE HARBOR			MCNARY			PASCO				
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS FB	%SAT. TAILW.	GAS % SAT
1	34.50	0.00	101.75	099.87	32.20	0.00	103.67	101.88	76.30	0.00	111.70	111.96	106.04	107.63
2	33.20	0.00	101.74	099.84	28.80	0.00	103.76	101.74	75.30	0.00	112.09	111.27	105.88	107.37
3	31.90	0.00	101.82	099.56	24.60	0.00	103.47	101.61	75.90	0.00	111.54	110.47	105.56	107.19
4	32.90	0.00	101.78	099.49	25.60	0.00	102.78	101.58	79.60	0.00	110.32	111.37	105.55	106.89
5	30.20	0.00	101.91	099.33	25.30	0.00	102.51	101.59	89.30	0.00	110.29	111.21	105.56	106.77
6	30.30	0.00	101.50	099.42	26.00	0.00	102.09	101.38	100.70	0.00	107.87	110.41	105.93	106.76
7	35.60	0.00	100.78	099.51	36.40	0.00	102.04	101.67	112.50	0.00	105.25	109.93	106.00	106.57
8	48.50	0.00	100.25	099.92	48.90	0.00	101.74	102.11	131.40	0.00	104.80	109.42	106.38	106.53
9	59.40	0.00	100.54	100.49	60.50	0.00	101.64	102.17	149.10	0.00	105.44	108.98	106.79	106.65
10	59.00	0.00	101.26	100.69	61.40	0.00	101.67	103.05	151.40	0.00	106.67	109.30	106.95	106.94
11	62.60	0.00	101.30	100.96	62.50	0.00	103.27	103.15	151.00	0.00	107.66	108.70	107.12	107.39
12	60.90	0.00	100.68	101.20	60.90	0.00	104.00	103.24	151.90	0.00	111.27	109.02	107.31	107.81
13	51.30	0.00	100.12	101.50	50.30	0.00	103.03	103.42	152.30	0.00	110.83	108.86	107.61	108.36
14	49.40	0.00	100.44	101.64	51.20	0.00	102.31	103.62	157.70	0.00	108.56	108.56	107.80	108.96
15	57.80	0.00	100.78	101.60	57.00	0.00	101.65	103.89	159.20	0.00	109.16	108.15	107.76	109.38
16	58.40	0.00	100.72	101.70	70.80	0.00	102.39	103.33	158.50	0.00	106.90	108.13	107.63	109.70
17	58.20	0.00	100.53	101.58	72.10	0.00	106.43	103.30	158.10	0.00	106.04	108.05	107.54	110.07
18	69.70	0.00	102.02	101.49	74.50	0.00	104.93	103.30	158.50	0.00	105.97	111.01	107.33	110.26
19	69.90	0.00	101.79	101.06	60.00	0.00	104.43	103.07	157.90	0.00	106.68	109.36	107.24	110.45
20	56.70	0.00	101.31	101.60	58.90	0.00	105.54	102.95	158.90	0.00	106.36	108.85	107.19	110.48
21	41.10	0.00	105.04	100.76	58.70	0.00	106.05	102.69	155.20	0.00	105.55	109.07	107.02	110.48
22	40.10	0.00	104.00	100.31	49.00	0.00	105.66	102.66	145.30	0.00	106.95	109.48	106.71	110.46
23	27.50	0.00	103.20	099.88	33.80	0.00	104.44	102.53	98.00	0.00	115.68	109.86	106.44	110.42
24	26.50	0.00	102.41	100.00	21.70	0.00	104.54	102.41	83.80	0.00	118.52	109.42	106.16	110.42

06 MAY 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

06 MAY 2001

	DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	
1	1.60	0.00	103.52	100.87	100.88	098.77	45.10	0.00	101.82	100.92	39.50	0.00	099.40	099.20	
2	1.60	0.00	103.62	100.86	100.71	098.48	37.80	0.00	102.07	100.81	38.30	0.00	099.24	099.35	
3	1.60	0.00	103.58	100.69	100.58	098.32	29.00	0.00	102.07	101.01	22.70	0.00	098.96	099.18	
4	1.60	0.00	103.95	100.50	100.32	098.02	26.90	0.00	101.90	101.24	19.70	0.00	098.90	099.14	
5	1.60	0.00	104.14	100.50	100.20	097.84	27.20	0.00	101.99	101.28	20.10	0.00	*****	099.12	
6	1.60	0.00	104.21	100.46	099.93	097.80	35.60	0.00	101.81	101.31	21.60	0.00	000.00	098.97	
7	1.60	0.00	104.73	100.43	099.92	097.79	36.90	0.00	101.76	101.25	27.40	0.00	098.91	099.16	
8	1.60	0.00	105.39	100.75	100.19	097.75	42.20	0.00	101.67	101.47	40.60	0.00	?UNDEF	099.26	
9	1.60	0.00	105.96	101.19	100.50	098.20	55.80	0.00	101.95	101.56	56.10	0.00	099.15	099.47	
10	1.60	0.00	106.52	101.89	101.04	098.77	56.70	0.00	101.99	101.88	56.40	0.00	000.00	099.51	
11	1.60	0.00	107.12	102.61	101.70	099.64	56.50	0.00	101.88	101.88	56.60	0.00	099.36	099.81	
12	1.60	0.00	107.54	103.35	102.07	100.45	59.20	0.00	102.07	101.95	56.20	0.00	099.35	099.97	
13	1.60	0.00	107.98	103.94	102.56	101.29	58.20	0.00	102.19	102.08	57.00	0.00	099.63	100.00	
14	1.60	0.00	108.55	104.40	103.14	101.86	54.50	0.00	102.22	102.17	59.40	0.00	*****	100.05	
15	1.60	0.00	108.60	104.71	103.44	102.44	57.70	0.00	102.16	102.33	59.20	0.00	099.56	100.07	
16	1.60	0.00	108.52	104.77	103.78	102.77	52.90	0.00	102.32	102.21	56.20	0.00	138.47	100.12	
17	1.60	0.00	108.12	104.60	103.96	102.93	47.60	0.00	102.63	102.11	59.20	0.00	?UNDEF	100.15	
18	1.60	0.00	107.44	104.04	103.89	102.94	46.40	0.00	102.77	101.98	52.60	0.00	248.10	100.17	
19	1.60	0.00	108.12	103.50	103.64	102.50	41.00	0.00	103.29	101.97	45.30	0.00	099.79	100.16	
20	1.60	0.00	105.35	103.05	103.14	101.82	45.20	0.00	102.87	101.86	46.00	0.00	099.77	100.04	
21	1.60	0.00	104.51	102.45	102.83	101.23	43.90	0.00	103.22	101.91	46.20	0.00	099.61	099.95	
22	1.60	0.00	104.00	102.11	102.46	100.51	46.80	0.00	104.51	101.87	46.10	0.00	099.79	099.73	
23	1.60	0.00	103.82	101.76	102.11	100.05	44.20	0.00	105.45	101.83	49.10	0.00	099.63	099.73	
24	1.60	0.00	103.48	101.48	101.95	099.47	45.50	0.00	105.24	101.79	46.00	0.00	099.61	099.68	
	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT	
1	38.90	0.00	100.74	100.07	43.10	0.00	101.34	101.86	81.40	0.00	104.13	104.35	103.98	106.27	
2	37.40	0.00	100.62	100.03	41.50	0.00	101.32	101.83	77.40	0.00	104.13	104.39	103.99	106.15	
3	20.50	0.00	100.39	099.60	25.50	0.00	101.32	101.83	78.80	0.00	104.78	104.36	104.24	105.99	
4	20.70	0.00	100.27	099.41	17.90	0.00	101.05	101.70	79.10	0.00	105.02	104.52	104.12	105.71	
5	17.30	0.00	100.24	099.21	11.60	0.00	101.05	101.42	93.20	0.00	104.63	104.49	104.48	105.58	
6	17.00	0.00	100.09	099.08	11.40	0.00	100.99	101.12	99.60	0.00	104.27	104.28	104.26	105.37	
7	17.70	0.00	100.17	099.26	11.40	0.00	101.06	101.09	118.20	0.00	104.74	104.22	104.37	105.15	
8	38.80	0.00	100.13	100.04	21.80	0.00	101.08	101.62	131.80	0.00	104.45	104.22	104.35	105.03	
9	55.60	0.00	100.52	100.34	38.80	0.00	101.35	102.50	130.60	0.00	105.67	104.74	104.63	105.21	
10	56.50	0.00	100.94	100.53	55.70	0.00	101.46	103.78	129.50	0.00	106.36	105.58	105.04	105.48	
11	63.80	0.00	101.10	101.03	65.10	0.00	101.64	103.36	128.90	0.00	107.56	106.90	105.33	105.72	
12	65.90	0.00	101.23	101.11	67.40	0.00	102.67	103.20	129.30	0.00	108.67	106.30	105.59	106.10	
13	64.40	0.00	100.48	101.22	67.60	0.00	103.06	103.40	128.40	0.00	109.27	108.61	105.98	106.58	
14	64.30	0.00	100.24	101.92	68.90	0.00	102.00	103.81	122.70	0.00	108.37	108.49	106.12	106.79	
15	62.80	0.00	101.22	101.63	66.20	0.00	102.15	103.62	123.50	0.00	109.46	109.69	106.18	107.06	
16	63.90	0.00	101.13	101.38	65.90	0.00	101.76	103.58	123.80	0.00	108.14	108.78	106.19	107.23	
17	58.10	0.00	103.18	101.31	61.70	0.00	101.55	103.42	124.10	0.00	107.78	107.52	106.36	107.43	
18	59.80	0.00	103.04	101.30	62.50	0.00	101.42	103.09	117.90	0.00	108.62	107.53	106.38	107.71	
19	52.70	0.00	102.66	101.31	50.30	0.00	101.72	102.75	121.60	0.00	108.40	107.81	106.14	107.86	
20	51.70	0.00	100.89	100.85	50.20	0.00	102.86	102.57	121.60	0.00	109.13	108.18	105.85	107.84	
21	49.30	0.00	100.85	100.34	48.00	0.00	102.16	102.27	122.70	0.00	108.53	112.49	105.68	107.72	
22	47.90	0.00	102.50	100.08	45.80	0.00	102.54	102.10	116.90	0.00	106.00	111.11	105.70	107.83	
23	47.70	0.00	103.16	100.19	47.20	0.00	102.65	101.94	96.60	0.00	105.84	112.52	105.80	107.81	
24	47.10	0.00	103.15	100.09	45.70	0.00	102.49	101.88	93.90	0.00	105.26	111.84	106.06	107.81	

05 MAY 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

05 MAY 2001

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	
1	1.70	0.00	103.27	102.53	102.47	101.05	40.80	0.00	103.94	101.28	45.90	0.00	099.89	100.21	
2	1.70	0.00	103.23	102.29	102.10	100.77	34.60	0.00	103.16	101.15	37.20	0.00	099.87	099.92	
3	1.70	0.00	103.19	102.11	101.73	100.38	29.20	0.00	102.29	101.14	17.20	0.00	?UNDEF	099.68	
4	1.60	0.00	103.09	101.78	101.46	099.93	27.20	0.00	102.21	101.02	17.40	0.00	?UNDEF	099.72	
5	1.60	0.00	102.92	101.63	101.20	099.60	35.00	0.00	102.40	101.07	14.60	0.00	?UNDEF	099.61	
6	1.60	0.00	103.04	101.37	100.73	099.31	53.00	0.00	101.81	101.22	23.40	0.00	?UNDEF	099.48	
7	1.60	0.00	103.43	101.24	100.60	098.99	54.00	0.00	101.61	101.38	57.90	0.00	004.28	099.79	
8	1.70	0.00	103.77	101.15	100.61	098.87	57.50	0.00	101.72	101.16	59.20	0.00	098.90	099.49	
9	1.70	0.00	103.80	101.38	100.83	099.24	57.60	0.00	101.47	101.11	59.80	0.00	098.80	099.24	
10	1.70	0.00	104.71	101.77	100.81	099.69	56.90	0.00	101.41	101.20	63.00	0.00	098.95	099.35	
11	1.70	0.00	104.95	102.23	101.27	100.05	57.70	0.00	101.62	101.19	65.90	0.00	?UNDEF	099.35	
12	1.70	0.00	104.49	102.75	101.77	100.58	59.60	0.00	101.84	101.31	66.30	0.00	?UNDEF	099.31	
13	1.70	0.00	104.62	103.26	101.91	101.29	56.70	0.00	101.86	101.32	66.10	0.00	?UNDEF	099.37	
14	1.70	0.00	105.04	103.49	102.14	101.61	54.60	0.00	101.88	101.40	69.10	0.00	?UNDEF	099.49	
15	1.70	0.00	104.83	103.87	102.04	101.85	54.30	0.00	101.90	101.40	64.50	0.00	?UNDEF	099.64	
16	1.70	0.00	104.15	103.91	102.09	102.00	57.20	0.00	102.02	101.24	61.70	0.00	?UNDEF	099.67	
17	1.70	0.00	104.03	103.75	102.23	101.97	56.10	0.00	102.14	101.27	61.80	0.00	?UNDEF	099.51	
18	1.70	0.00	103.95	103.32	102.19	101.70	54.90	0.00	102.04	101.24	62.30	0.00	?UNDEF	099.68	
19	1.70	0.00	104.03	102.93	102.04	101.27	53.30	0.00	102.20	101.15	59.30	0.00	099.31	099.55	
20	1.60	0.00	101.88	102.35	101.76	100.76	53.40	0.00	102.31	101.11	57.70	0.00	099.31	099.49	
21	1.60	0.00	101.70	101.83	101.43	100.13	54.60	0.00	102.45	101.17	57.60	0.00	099.33	099.40	
22	1.60	0.00	102.71	101.51	101.24	099.85	53.40	0.00	102.37	101.07	56.90	0.00	099.35	099.34	
23	1.60	0.00	103.22	101.20	101.28	099.38	48.00	0.00	102.31	101.02	57.80	0.00	099.48	099.27	
24	1.60	0.00	103.33	101.18	101.04	099.08	45.20	0.00	102.13	100.97	52.80	0.00	099.43	099.26	
LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT	
1	42.70	0.00	102.05	101.52	43.60	0.00	102.40	102.86	91.60	0.00	105.85	105.60	104.68	109.37	
2	35.00	0.00	102.01	101.18	34.80	0.00	102.16	102.64	77.90	0.00	105.17	105.53	104.04	108.45	
3	17.90	0.00	101.68	100.76	18.50	0.00	102.05	102.36	62.50	0.00	104.90	104.81	103.72	107.73	
4	14.10	0.00	101.57	100.72	12.80	0.00	101.89	101.97	61.50	0.00	104.67	104.50	103.26	106.74	
5	14.50	0.00	101.31	100.25	12.80	0.00	101.73	101.62	78.20	0.00	104.37	104.25	103.19	106.25	
6	21.70	0.00	101.04	100.45	13.90	0.00	101.48	101.39	99.80	0.00	103.90	104.00	102.93	105.70	
7	54.40	0.00	101.10	100.77	29.30	0.00	101.57	101.48	115.80	0.00	103.59	103.59	102.79	105.12	
8	56.50	0.00	101.04	100.82	44.40	0.00	101.64	102.90	127.00	0.00	103.64	103.75	103.01	104.81	
9	64.90	0.00	101.07	101.82	61.50	0.00	101.54	102.61	128.60	0.00	103.82	103.89	103.26	104.98	
10	64.30	0.00	101.03	101.60	68.90	0.00	101.62	103.12	131.60	0.00	103.60	104.29	103.62	105.05	
11	66.70	0.00	101.05	101.76	70.40	0.00	101.59	102.66	137.00	0.00	103.72	104.58	103.72	105.20	
12	67.10	0.00	101.01	101.76	72.40	0.00	101.61	102.96	137.00	0.00	103.89	104.26	103.88	105.48	
13	68.50	0.00	101.04	101.76	71.30	0.00	101.63	102.96	144.40	0.00	103.96	104.49	104.09	105.90	
14	67.50	0.00	101.03	101.66	71.30	0.00	101.69	103.41	146.00	0.00	104.02	104.52	104.28	106.33	
15	67.20	0.00	101.20	101.86	71.10	0.00	101.83	103.17	144.70	0.00	104.19	104.81	104.15	106.77	
16	68.60	0.00	101.36	101.73	72.50	0.00	101.89	103.18	145.90	0.00	104.47	104.93	104.29	107.00	
17	66.70	0.00	101.07	101.61	71.20	0.00	101.79	103.03	146.60	0.00	104.44	104.78	104.15	107.28	
18	66.60	0.00	101.16	101.62	70.20	0.00	101.81	102.90	142.20	0.00	104.68	104.77	104.09	107.44	
19	66.50	0.00	101.20	101.26	65.00	0.00	101.81	102.69	141.50	0.00	104.40	104.77	104.11	107.38	
20	68.20	0.00	101.41	101.41	64.50	0.00	101.77	102.51	142.90	0.00	104.10	104.90	104.13	107.18	
21	67.80	0.00	101.04	100.74	64.50	0.00	101.67	102.27	143.80	0.00	104.16	104.73	104.05	107.01	
22	66.50	0.00	100.98	100.50	64.40	0.00	101.63	102.09	143.40	0.00	104.13	104.63	103.96	106.92	
23	66.30	0.00	100.82	100.46	65.20	0.00	101.56	101.93	136.50	0.00	103.96	104.46	104.05	106.76	
24	59.70	0.00	100.88	100.36	58.20	0.00	101.41	101.85	99.00	0.00	103.86	104.43	104.02	106.76	

04 MAY 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
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04 MAY 2001

	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR:	TOTAL DISCH. KCFS	SPIILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPIILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPIILL KCFS	GAS FB	%SAT. TAILW.
1	1.60	0.00	106.12	102.05	102.56	100.86	31.70	0.00	101.04	099.75	29.10	0.00	103.21	099.95
2	1.60	0.00	106.12	101.80	102.34	100.59	26.80	0.00	100.82	099.91	24.90	0.00	102.81	099.95
3	1.60	0.00	106.29	101.68	102.04	100.35	27.30	0.00	100.71	099.95	28.40	0.00	102.69	099.80
4	1.60	0.00	106.11	101.51	101.74	100.20	26.90	0.00	101.02	099.85	27.30	0.00	102.45	099.87
5	1.60	0.00	106.14	101.40	101.51	100.11	38.90	0.00	101.30	100.35	26.30	0.00	102.33	099.73
6	1.60	0.00	106.06	101.36	101.25	099.92	40.40	0.00	101.11	100.33	28.60	0.00	101.91	099.84
7	1.60	0.00	106.33	101.36	101.12	099.76	52.80	0.00	100.95	100.35	56.30	0.00	101.51	101.70
8	1.60	0.00	106.65	101.37	101.16	099.96	56.00	0.00	101.15	100.41	60.20	0.00	100.96	101.13
9	1.70	0.00	107.14	101.86	101.43	100.42	55.20	0.00	101.06	100.45	60.40	0.00	101.08	100.67
10	1.60	0.00	107.64	102.51	101.76	101.18	55.50	0.00	101.27	100.51	60.40	0.00	100.76	100.73
11	1.60	0.00	107.10	103.16	102.53	101.93	57.00	0.00	101.88	100.72	60.00	0.00	100.56	100.80
12	1.70	0.00	106.70	103.90	102.89	102.73	55.20	0.00	102.28	100.83	60.20	0.00	?UNDEF	100.80
13	1.70	0.00	106.85	104.47	103.23	103.58	55.20	0.00	102.40	101.10	62.70	0.00	*****	101.03
14	1.70	0.00	106.71	104.84	103.80	104.26	56.20	0.00	102.56	101.39	63.50	0.00	102.03	101.14
15	1.70	0.00	106.59	105.11	104.18	104.76	56.90	0.00	103.55	101.45	60.30	0.00	?UNDEF	101.13
16	1.70	0.00	106.42	105.23	104.30	104.99	55.10	0.00	104.27	101.57	60.20	0.00	?UNDEF	101.10
17	1.70	0.00	106.25	105.02	104.47	105.05	55.10	0.00	104.86	101.51	60.20	0.00	?UNDEF	100.90
18	1.70	0.00	106.07	104.64	104.41	104.77	55.20	0.00	105.45	101.60	60.10	0.00	?UNDEF	100.83
19	1.70	0.00	106.25	104.17	104.22	104.15	55.80	0.00	104.29	101.63	61.20	0.00	100.50	100.75
20	1.70	0.00	104.67	103.77	103.80	103.46	62.10	0.00	104.45	101.64	60.80	0.00	100.36	100.73
21	1.70	0.00	104.06	103.44	103.37	102.98	59.10	0.00	105.13	101.62	60.80	0.00	100.36	100.61
22	1.70	0.00	103.66	103.19	103.14	102.35	58.70	0.00	104.45	101.63	61.00	0.00	000.00	100.40
23	1.70	0.00	103.40	102.91	102.98	101.95	56.10	0.00	103.80	101.55	62.40	0.00	*****	100.15
24	1.70	0.00	103.23	102.78	102.62	101.56	50.60	0.00	104.12	101.29	58.70	0.00	100.07	100.32
	LOWER MONUMENTAL			ICE HARBOR			MCNARY			PASCO				
HOUR:	TOTAL DISCH KCFS	SPIILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPIILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPIILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	30.20	0.00	101.51	100.44	22.80	0.00	103.39	101.88	57.60	0.00	110.11	107.78	103.56	110.05
2	21.30	0.00	101.24	100.45	20.50	0.00	103.04	102.02	62.40	0.00	109.76	108.17	103.43	109.94
3	21.40	0.00	101.01	100.46	13.10	0.00	103.04	101.83	70.20	0.00	108.61	106.63	103.19	109.80
4	21.40	0.00	101.29	100.34	13.00	0.00	102.93	101.85	68.40	0.00	108.33	109.41	103.19	109.60
5	21.40	0.00	102.75	100.19	13.00	0.00	102.70	101.72	84.00	0.00	107.55	106.20	103.35	109.48
6	22.40	0.00	102.23	100.34	13.70	0.00	102.73	101.74	101.50	0.00	104.93	108.08	103.49	109.36
7	55.10	0.00	102.53	101.02	29.60	0.00	102.57	101.91	150.90	0.00	102.68	107.19	103.48	109.29
8	63.80	0.00	101.64	101.33	47.30	0.00	102.33	103.00	157.50	0.00	102.31	107.05	103.90	109.26
9	64.70	0.00	101.16	101.39	67.20	0.00	102.25	102.95	155.40	0.00	104.08	107.67	104.08	109.45
10	66.00	0.00	102.84	101.86	70.20	0.00	102.20	103.49	155.20	0.00	105.20	106.93	104.60	109.64
11	64.60	0.00	102.65	102.14	70.40	0.00	102.93	103.24	154.60	0.00	104.66	107.40	104.96	110.14
12	66.20	0.00	102.13	102.55	70.60	0.00	103.47	103.37	154.60	0.00	106.89	107.94	105.19	110.54
13	64.50	0.00	101.97	102.87	70.20	0.00	103.70	103.62	154.10	0.00	108.11	108.08	105.47	111.21
14	64.70	0.00	101.78	102.85	71.70	0.00	103.45	103.87	154.70	0.00	114.51	107.16	105.86	111.75
15	64.70	0.00	101.81	102.97	70.40	0.00	104.23	103.67	154.70	0.00	108.05	106.62	106.02	112.15
16	64.60	0.00	103.60	102.95	69.90	0.00	103.38	103.79	155.40	0.00	103.88	107.20	106.07	112.39
17	64.70	0.00	103.19	102.91	70.80	0.00	104.63	103.72	155.80	0.00	112.89	107.81	106.15	112.59
18	64.90	0.00	103.66	102.80	69.60	0.00	103.52	103.61	156.10	0.00	115.09	107.61	105.94	112.24
19	72.90	0.00	103.54	102.56	73.40	0.00	102.94	103.45	152.60	0.00	114.06	107.86	105.80	111.82
20	70.50	0.00	103.14	102.42	72.20	0.00	102.80	103.33	151.60	0.00	112.43	107.45	105.75	111.51
21	72.00	0.00	103.26	102.31	73.60	0.00	102.78	103.11	168.60	0.00	111.78	107.10	105.35	111.20
22	70.60	0.00	103.43	101.97	72.20	0.00	103.51	103.04	168.50	0.00	111.17	106.62	105.05	110.82
23	70.30	0.00	102.67	101.89	73.20	0.00	103.03	102.96	128.60	0.00	108.88	106.21	105.02	110.56
24	56.60	0.00	101.90	101.71	54.80	0.00	102.58	102.93	107.60	0.00	106.87	105.91	104.87	110.56

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	DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPIILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPIILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPIILL KCFS	GAS FB	%SAT. TAILW.		
1	1.60	0.00	105.40	101.19	101.39	099.38	43.80	0.00	099.38	098.71	38.20	0.00	100.46	099.17		
2	1.60	0.00	105.25	101.04	101.26	099.27	43.50	0.00	099.07	098.72	38.10	0.00	100.32	098.99		
3	1.60	0.00	105.09	100.91	101.11	099.10	44.70	0.00	099.03	098.57	38.80	0.00	100.22	098.92		
4	1.60	0.00	104.91	100.88	100.81	098.98	49.30	0.00	098.79	098.56	41.90	0.00	099.91	098.76		
5	1.60	0.00	104.74	100.75	100.63	098.94	54.20	0.00	099.01	098.54	45.00	0.00	023.01	098.75		
6	1.60	0.00	104.62	100.73	100.48	098.79	57.40	0.00	098.91	098.54	53.70	0.00	023.07	098.77		
7	1.60	0.00	104.87	100.72	100.51	098.77	60.50	0.00	099.02	098.55	61.50	0.00	*****	098.76		
8	1.60	0.00	105.35	101.03	100.67	098.94	60.40	0.00	099.30	098.55	64.60	0.00	*****	098.79		
9	1.60	0.00	105.81	101.32	101.02	099.39	62.10	0.00	099.20	098.89	65.00	0.00	*****	098.83		
10	1.60	0.00	106.55	102.00	101.51	100.00	60.60	0.00	099.26	098.92	64.80	0.00	*****	098.94		
11	1.60	0.00	107.21	102.58	102.05	100.88	60.30	0.00	099.60	099.13	64.60	0.00	*****	099.43		
12	1.60	0.00	107.88	103.41	102.57	101.79	61.30	0.00	099.95	099.31	64.30	0.00	*****	099.66		
13	1.60	0.00	108.41	103.92	103.09	102.54	60.30	0.00	100.33	004.24	64.00	0.00	*****	099.85		
14	1.60	0.00	108.95	104.51	103.78	103.20	60.20	0.00	101.00	099.66	67.90	0.00	*****	099.89		
15	1.60	0.00	109.20	104.89	104.17	103.57	60.20	0.00	103.09	099.80	64.90	0.00	100.73	100.07		
16	1.60	0.00	109.32	104.87	104.38	103.79	63.00	0.00	101.59	099.89	69.20	0.00	100.08	100.13		
17	1.60	0.00	109.26	104.80	104.62	103.75	55.70	0.00	100.72	099.97	65.20	0.00	099.92	100.00		
18	1.60	0.00	108.63	104.46	104.53	103.69	59.40	0.00	100.80	100.03	65.20	0.00	100.09	100.11		
19	1.60	0.00	109.26	104.05	104.28	103.30	56.80	0.00	100.98	099.92	65.30	0.00	099.83	099.97		
20	1.60	0.00	106.89	103.54	103.87	102.81	54.70	0.00	101.89	099.95	65.00	0.00	099.73	099.87		
21	1.60	0.00	106.44	103.08	103.45	102.37	54.70	0.00	102.31	099.77	64.40	0.00	100.55	099.87		
22	1.60	0.00	106.19	102.81	103.21	101.86	55.20	0.00	102.58	099.85	61.50	0.00	103.45	099.84		
23	1.60	0.00	106.06	102.42	103.12	101.52	55.80	0.00	101.94	099.85	43.80	0.00	103.17	100.03		
24	1.60	0.00	106.21	102.17	102.74	101.23	54.00	0.00	101.83	099.72	42.50	0.00	103.71	100.00		
	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPIILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPIILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPIILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT		
1	36.20	0.00	100.11	099.44	36.90	0.00	099.96	100.48	79.20	0.00	106.33	104.58	101.97	107.54		
2	35.40	0.00	100.26	099.30	32.00	0.00	099.41	100.48	75.10	0.00	104.61	105.47	101.98	107.55		
3	37.90	0.00	100.26	099.69	31.40	0.00	099.18	100.63	83.40	0.00	104.08	105.75	102.11	107.30		
4	40.90	0.00	099.45	099.11	33.00	0.00	099.06	100.50	90.40	0.00	103.43	105.46	102.35	107.17		
5	42.00	0.00	099.33	098.99	38.20	0.00	099.47	100.51	113.40	0.00	102.12	105.25	102.79	106.98		
6	53.60	0.00	099.72	099.07	39.60	0.00	099.45	100.52	119.10	0.00	101.90	105.26	102.79	106.92		
7	61.10	0.00	099.84	099.34	53.70	0.00	099.45	100.67	138.20	0.00	101.48	104.97	102.63	106.94		
8	69.70	0.00	100.11	099.49	71.20	0.00	099.58	100.90	148.20	0.00	101.44	105.10	102.65	106.94		
9	73.50	0.00	100.42	100.12	75.10	0.00	099.88	100.88	149.60	0.00	102.03	105.17	102.82	106.98		
10	73.40	0.00	100.91	100.49	77.10	0.00	099.83	101.35	151.70	0.00	102.98	104.84	103.16	107.27		
11	73.60	0.00	101.86	100.76	77.10	0.00	099.86	101.46	149.60	0.00	104.54	105.04	103.24	107.72		
12	75.00	0.00	101.71	101.12	75.90	0.00	100.05	101.69	150.10	0.00	105.65	105.13	103.40	108.15		
13	75.40	0.00	101.01	101.57	73.50	0.00	099.74	102.04	149.60	0.00	109.96	104.91	103.69	108.69		
14	73.90	0.00	101.10	101.44	74.50	0.00	101.30	102.38	145.70	0.00	111.39	105.18	103.79	109.18		
15	75.10	0.00	100.58	101.63	73.00	0.00	101.28	102.74	148.20	0.00	112.72	105.19	103.92	109.56		
16	75.40	0.00	100.43	101.74	72.60	0.00	101.78	102.71	148.80	0.00	113.02	105.06	104.18	109.85		
17	73.90	0.00	101.95	101.67	72.10	0.00	104.59	102.63	150.00	0.00	114.78	104.85	104.14	110.04		
18	73.80	0.00	103.47	101.76	74.70	0.00	104.84	102.52	151.90	0.00	116.08	104.82	104.07	110.28		
19	72.70	0.00	102.06	101.81	72.20	0.00	102.35	102.59	151.10	0.00	112.58	106.96	104.02	110.32		
20	67.90	0.00	103.70	101.53	72.10	0.00	102.11	102.33	133.20	0.00	109.96	111.52	104.16	110.33		
21	66.90	0.00	101.01	101.17	72.00	0.00	103.16	102.15	131.00	0.00	103.03	111.80	104.03	110.25		
22	62.70	0.00	101.25	100.98	73.00	0.00	103.16	101.92	116.80	0.00	102.25	110.73	103.75	110.23		
23	43.40	0.00	101.84	100.73	56.40	0.00	103.89	102.01	80.50	0.00	105.19	106.62	000.00	110.13		
24	42.40	0.00	101.82	100.69	37.50	0.00	103.91	101.98	67.20	0.00	108.80	105.72	103.65	110.13		

02 MAY 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

02 MAY 2001

	DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.		
1	1.60	0.00	104.58	101.14	101.47	099.85	60.30	0.00	098.53	098.18	56.50	0.00	100.19	099.66		
2	1.60	0.00	104.32	101.14	101.22	099.57	57.20	0.00	098.36	098.13	48.30	0.00	100.00	099.63		
3	1.60	0.00	104.25	101.10	100.93	099.56	57.60	0.00	098.27	098.05	51.60	0.00	100.11	099.59		
4	1.60	0.00	104.20	101.02	100.82	099.33	59.50	0.00	098.28	098.01	49.30	0.00	099.88	099.50		
5	1.60	0.00	104.13	100.99	100.70	099.16	54.30	0.00	098.32	098.52	44.20	0.00	099.85	099.34		
6	1.60	0.00	104.06	100.91	100.60	099.08	59.90	0.00	098.42	098.35	61.90	0.00	099.68	099.27		
7	1.60	0.00	104.14	100.86	100.55	098.91	69.10	0.00	098.35	098.27	73.20	0.00	099.45	099.21		
8	1.60	0.00	104.37	100.98	100.62	098.96	70.70	0.00	098.30	098.20	73.00	0.00	099.55	099.27		
9	1.60	0.00	104.74	101.20	100.92	099.20	76.30	0.00	098.38	098.30	82.10	0.00	099.55	099.27		
10	1.60	0.00	104.97	101.56	101.02	099.56	79.90	0.00	098.47	098.65	82.10	0.00	099.47	099.21		
11	1.60	0.00	104.95	101.95	100.98	099.69	65.00	0.00	098.59	098.65	75.80	0.00	099.49	099.21		
12	1.60	0.00	104.94	102.38	101.10	099.96	64.20	0.00	098.74	098.67	75.80	0.00	099.34	099.22		
13	1.60	0.00	105.77	102.91	101.61	100.25	58.20	0.00	098.87	098.80	70.70	0.00	099.34	099.38		
14	1.60	0.00	106.62	103.02	101.85	100.36	57.50	0.00	099.18	098.97	70.00	0.00	099.54	099.41		
15	1.60	0.00	107.29	103.18	102.12	100.64	58.40	0.00	099.04	098.97	66.40	0.00	099.51	099.42		
16	1.60	0.00	107.29	103.30	102.48	100.76	50.50	0.00	099.19	098.84	52.10	0.00	099.41	099.45		
17	1.50	0.00	107.20	103.06	102.39	100.92	40.80	0.00	099.38	099.11	51.10	0.00	099.70	099.48		
18	1.50	0.00	107.15	102.81	102.55	100.98	40.70	0.00	099.40	099.00	50.40	0.00	099.70	099.47		
19	1.60	0.00	107.20	102.37	102.60	101.05	54.10	0.00	099.36	099.01	46.50	0.00	101.36	099.51		
20	1.60	0.00	106.99	102.20	102.46	100.74	61.70	0.00	099.38	099.23	50.40	0.00	100.67	099.48		
21	1.60	0.00	106.23	101.93	102.11	100.42	59.50	0.00	099.15	099.17	60.70	0.00	023.04	099.42		
22	1.60	0.00	105.61	101.64	101.97	099.96	62.90	0.00	099.27	099.04	61.80	0.00	100.51	099.39		
23	1.60	0.00	105.33	101.52	101.68	099.80	58.00	0.00	099.36	098.86	54.10	0.00	100.36	099.34		
24	1.60	0.00	105.29	101.35	101.56	099.67	49.50	0.00	099.34	098.84	45.50	0.00	100.61	099.31		
	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB %SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT TAILW.			
1	55.90	0.00	100.49	100.17	53.90	0.00	099.99	101.15	122.70	0.00	102.46	102.72	102.36	104.73		
2	45.10	0.00	100.25	099.80	43.10	0.00	099.78	101.07	118.20	0.00	102.37	102.62	102.26	104.52		
3	55.20	0.00	100.25	099.91	43.90	0.00	099.73	100.90	119.50	0.00	102.25	102.61	102.13	104.23		
4	57.20	0.00	100.05	099.96	43.90	0.00	099.67	100.73	122.10	0.00	102.08	102.66	101.92	103.99		
5	56.80	0.00	099.87	099.63	36.20	0.00	099.52	100.82	129.70	0.00	102.04	102.53	101.91	103.84		
6	56.30	0.00	099.78	099.65	53.30	0.00	099.58	100.76	149.30	0.00	101.92	102.42	101.77	103.48		
7	69.80	0.00	099.70	099.59	70.30	0.00	099.62	100.71	150.10	0.00	101.74	102.36	101.85	103.43		
8	74.90	0.00	099.63	099.79	76.10	0.00	099.45	100.86	141.30	0.00	101.77	102.17	101.94	103.38		
9	79.40	0.00	099.67	099.95	79.70	0.00	099.67	100.90	149.20	0.00	102.32	102.20	102.32	103.61		
10	79.90	0.00	099.66	100.14	80.20	0.00	099.67	101.19	150.20	0.00	103.10	102.33	102.58	103.87		
11	81.40	0.00	099.64	100.49	80.30	0.00	099.65	101.07	150.10	0.00	104.61	102.07	102.74	104.40		
12	85.40	0.00	099.70	100.58	79.00	0.00	099.60	101.33	153.90	0.00	105.28	102.08	103.01	104.93		
13	85.60	0.00	099.70	100.47	79.00	0.00	099.61	101.63	157.20	0.00	106.00	102.04	102.99	105.50		
14	85.40	0.00	099.87	100.58	78.50	0.00	099.75	102.02	158.90	0.00	106.82	102.06	103.02	106.03		
15	75.40	0.00	099.76	100.62	79.00	0.00	099.97	101.80	149.80	0.00	107.90	102.73	103.03	106.57		
16	65.40	0.00	099.79	101.07	80.30	0.00	099.69	101.90	150.60	0.00	107.90	103.15	103.23	107.02		
17	60.10	0.00	099.81	101.25	79.20	0.00	099.62	101.73	148.50	0.00	110.59	103.08	103.23	107.35		
18	50.20	0.00	099.93	101.12	61.30	0.00	100.40	101.58	146.60	0.00	110.35	102.79	102.98	107.62		
19	50.30	0.00	100.71	100.63	51.90	0.00	100.55	101.49	147.00	0.00	105.90	102.58	102.77	107.76		
20	51.30	0.00	100.71	100.47	46.90	0.00	100.91	101.16	148.10	0.00	103.26	106.74	102.61	107.89		
21	55.70	0.00	099.97	099.84	46.90	0.00	100.73	100.97	151.30	0.00	103.28	108.40	102.39	107.79		
22	60.10	0.00	100.44	099.70	53.90	0.00	100.83	100.81	138.00	0.00	103.10	105.48	102.32	107.91		
23	51.60	0.00	100.17	099.53	48.20	0.00	100.29	100.63	108.00	0.00	102.31	105.58	102.30	107.72		
24	50.60	0.00	099.74	099.32	47.30	0.00	099.82	100.61	100.50	0.00	106.51	104.48	102.27	107.72		

01 MAY 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

01 MAY 2001

	DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	
1	1.60	0.00	132.16	101.09	100.79	099.30	54.00	0.00	099.87	100.03	50.60	0.00	101.53	100.99	
2	1.60	0.00	132.49	100.96	100.80	099.28	58.90	0.00	099.62	099.85	59.90	0.00	101.67	100.99	
3	1.60	0.00	132.85	100.92	100.61	099.17	54.00	0.00	099.50	099.55	45.40	0.00	101.53	100.83	
4	1.60	0.00	133.28	100.76	100.45	099.07	55.60	0.00	099.48	099.35	46.30	0.00	101.31	100.60	
5	1.60	0.00	133.56	100.69	100.43	099.00	57.70	0.00	099.26	099.60	48.40	0.00	101.29	100.57	
6	1.60	0.00	133.81	100.62	100.39	099.01	71.20	0.00	099.09	099.47	64.80	0.00	101.21	100.56	
7	1.60	0.00	133.91	100.75	100.38	098.94	72.80	0.00	099.08	099.32	65.60	0.00	101.01	100.65	
8	1.60	0.00	133.84	100.82	100.47	099.08	74.00	0.00	099.06	099.08	78.00	0.00	100.85	100.72	
9	1.60	0.00	133.97	101.08	100.70	099.29	74.50	0.00	099.12	098.91	79.80	0.00	100.77	100.66	
10	1.60	0.00	133.97	101.16	100.89	099.56	75.00	0.00	099.09	098.82	79.30	0.00	100.84	100.65	
11	1.60	0.00	133.99	101.40	101.15	099.80	75.00	0.00	098.97	098.86	79.40	0.00	100.71	100.62	
12	1.60	0.00	134.16	101.87	101.35	100.45	76.50	0.00	098.96	098.87	79.80	0.00	100.64	100.65	
13	1.60	0.00	105.68	102.52	101.76	100.74	75.60	0.00	098.97	098.74	79.90	0.00	100.88	100.72	
14	1.60	0.00	107.12	102.61	102.09	100.90	75.60	0.00	098.98	098.79	81.20	0.00	100.84	100.69	
15	1.60	0.00	106.82	102.87	102.46	101.04	75.50	0.00	099.05	098.80	82.40	0.00	100.80	100.52	
16	1.60	0.00	106.55	102.91	102.55	101.36	69.30	0.00	098.85	098.78	76.20	0.00	100.91	100.71	
17	1.60	0.00	106.48	102.76	102.67	101.28	68.70	0.00	099.05	098.83	76.20	0.00	100.89	100.76	
18	1.60	0.00	106.58	102.64	102.81	101.27	73.10	0.00	098.90	098.81	74.70	0.00	100.88	100.60	
19	1.60	0.00	106.48	102.37	102.62	101.27	73.30	0.00	098.88	098.66	71.90	0.00	100.84	100.60	
20	1.60	0.00	105.21	102.03	102.29	100.94	71.60	0.00	098.96	098.60	73.10	0.00	100.74	100.29	
21	1.60	0.00	104.58	101.77	102.01	100.63	71.50	0.00	098.74	098.66	74.80	0.00	100.74	100.20	
22	1.60	0.00	104.24	101.54	101.83	100.40	71.10	0.00	001.60	098.45	71.60	0.00	100.58	100.09	
23	1.60	0.00	104.70	101.37	101.78	000.00	51.80	0.00	098.77	098.27	54.10	0.00	100.57	099.91	
24	1.60	0.00	104.79	101.29	101.57	100.03	57.90	0.00	098.57	098.35	52.80	0.00	100.23	099.88	
	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT	
1	48.50	0.00	101.23	101.03	42.20	0.00	100.36	101.54	97.90	0.00	103.86	105.30	103.83	102.72	
2	58.50	0.00	101.25	101.17	39.70	0.00	100.49	101.42	96.60	0.00	103.90	105.05	103.63	102.62	
3	56.90	0.00	101.17	101.22	41.10	0.00	100.53	101.36	94.40	0.00	103.73	104.78	103.57	102.46	
4	41.40	0.00	100.99	100.77	42.80	0.00	100.29	101.25	93.20	0.00	103.65	104.53	103.47	102.39	
5	42.50	0.00	101.01	100.64	44.60	0.00	100.17	101.36	113.80	0.00	103.66	104.30	103.51	102.06	
6	53.80	0.00	100.96	100.66	43.50	0.00	100.08	101.16	128.40	0.00	103.48	104.39	103.56	102.12	
7	64.60	0.00	100.83	100.70	53.40	0.00	100.24	101.32	139.60	0.00	103.35	104.11	103.36	102.12	
8	74.20	0.00	100.80	100.91	73.00	0.00	100.26	101.61	157.40	0.00	103.37	103.97	103.49	102.32	
9	81.90	0.00	100.73	100.90	81.30	0.00	100.24	101.53	159.20	0.00	103.34	104.22	103.36	102.53	
10	89.60	0.00	100.57	101.04	84.90	0.00	100.28	101.75	159.10	0.00	103.47	103.94	103.44	102.93	
11	91.40	0.00	100.53	101.18	88.10	0.00	100.26	101.88	151.00	0.00	103.47	104.14	103.44	103.11	
12	92.80	0.00	100.55	101.10	88.10	0.00	100.29	101.78	152.20	0.00	103.33	103.99	103.54	103.45	
13	91.60	0.00	100.75	101.28	88.10	0.00	100.71	101.95	153.70	0.00	103.35	103.85	103.53	103.81	
14	91.60	0.00	100.71	101.17	87.70	0.00	100.59	102.35	155.60	0.00	103.14	103.95	103.35	104.23	
15	91.10	0.00	100.72	101.18	89.40	0.00	100.63	102.09	154.50	0.00	103.51	103.81	103.23	104.53	
16	86.60	0.00	101.01	101.39	87.60	0.00	100.64	102.12	154.20	0.00	103.83	103.83	103.29	104.83	
17	81.10	0.00	101.02	101.36	83.50	0.00	100.45	102.12	156.50	0.00	103.54	104.08	103.11	105.21	
18	79.10	0.00	101.14	101.27	83.00	0.00	100.45	101.96	146.20	0.00	103.23	103.93	103.01	105.50	
19	73.30	0.00	100.97	101.07	80.30	0.00	100.46	101.67	147.10	0.00	103.42	103.78	102.95	105.51	
20	72.90	0.00	100.94	100.90	80.30	0.00	100.38	101.56	148.70	0.00	103.33	103.44	102.94	105.65	
21	73.30	0.00	100.66	100.67	79.00	0.00	100.31	101.44	142.70	0.00	103.28	103.24	102.83	105.54	
22	74.40	0.00	100.57	100.57	79.50	0.00	100.31	101.48	122.80	0.00	103.04	103.17	102.66	105.51	
23	50.40	0.00	100.44	100.29	62.00	0.00	100.24	101.22	115.20	0.00	102.77	102.99	102.59	105.34	
24	53.80	0.00	100.41	100.37	54.30	0.00	100.14	101.34	117.40	0.00	102.71	102.92	102.44	105.34	

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WALLA WALLA DISTRICT HYDRO PROJECTS
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	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.60	0.00	105.84	101.53	101.98	100.56	46.40	0.00	101.38	101.08	40.50	0.00	023.35	101.85
2	1.60	0.00	105.83	101.53	101.80	100.46	47.40	0.00	101.41	101.07	46.70	0.00	023.35	101.86
3	1.60	0.00	105.83	101.47	101.64	100.30	47.00	0.00	101.45	100.91	43.80	0.00	023.32	101.71
4	1.60	0.00	105.66	101.37	101.57	100.27	47.60	0.00	101.29	100.91	43.50	0.00	101.72	101.66
5	1.60	0.00	105.41	101.37	101.59	100.19	53.80	0.00	101.18	101.62	49.90	0.00	023.29	101.74
6	1.60	0.00	105.27	101.44	101.34	100.19	58.10	0.00	101.08	101.10	48.80	0.00	023.29	101.78
7	1.60	0.00	105.31	101.48	101.27	100.23	59.70	0.00	100.79	101.00	57.60	0.00	023.32	101.85
8	1.60	0.00	105.53	101.52	101.32	100.31	59.60	0.00	100.88	101.29	65.70	0.00	023.32	102.01
9	1.60	0.00	105.89	101.56	101.33	100.53	60.80	0.00	100.94	100.98	64.70	0.00	023.29	101.90
10	1.60	0.00	106.25	101.83	101.51	100.58	61.10	0.00	100.98	101.58	67.70	0.00	023.29	101.96
11	1.60	0.00	106.50	101.90	101.58	100.66	61.50	0.00	101.12	101.29	67.90	0.00	023.29	102.13
12	1.60	0.00	106.72	102.14	101.69	101.07	61.50	0.00	101.22	101.49	69.20	0.00	023.32	102.08
13	1.60	0.00	107.02	102.42	101.85	101.28	61.50	0.00	101.16	101.21	67.90	0.00	023.35	102.12
14	1.60	0.00	107.20	102.31	101.97	101.19	62.60	0.00	101.13	101.18	67.70	0.00	023.32	102.08
15	1.60	0.00	107.07	102.27	101.84	100.97	54.50	0.00	101.00	101.01	68.30	0.00	003.34	102.10
16	1.60	0.00	106.92	102.15	101.78	100.93	54.80	0.00	101.03	101.10	65.00	0.00	023.32	102.26
17	1.60	0.00	106.33	101.98	101.62	100.81	53.60	0.00	101.07	101.22	57.80	0.00	102.76	102.30
18	1.60	0.00	106.07	102.00	101.58	100.89	53.20	0.00	100.96	101.22	57.60	0.00	023.29	102.10
19	1.60	0.00	106.33	102.00	101.61	100.94	52.50	0.00	101.04	100.90	57.50	0.00	023.32	101.91
20	1.60	0.00	106.15	101.76	101.59	100.61	51.30	0.00	100.80	100.79	54.60	0.00	023.29	101.84
21	1.60	0.00	105.89	101.65	101.46	100.35	53.20	0.00	100.62	101.10	51.20	0.00	101.99	101.66
22	1.60	0.00	105.48	101.52	101.20	100.09	51.30	0.00	100.28	100.47	52.50	0.00	102.03	101.32
23	1.60	0.00	131.56	101.30	101.10	099.87	51.90	0.00	100.13	100.27	50.60	0.00	101.82	101.26
24	1.60	0.00	131.84	101.18	100.95	099.61	49.70	0.00	099.85	100.07	47.50	0.00	101.55	101.12
	LOWER MONUMENTAL			ICE HARBOR			MCNARY			PASCO				
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	38.30	0.00	103.24	102.70	35.80	0.00	101.45	102.47	123.50	0.00	107.10	107.63	106.82	105.70
2	40.00	0.00	103.21	102.52	29.80	0.00	101.52	102.37	104.60	0.00	106.75	107.51	106.72	105.49
3	41.80	0.00	103.25	102.54	29.60	0.00	101.33	102.39	102.70	0.00	107.17	107.37	106.60	105.36
4	42.20	0.00	103.09	102.56	30.30	0.00	101.23	102.55	94.40	0.00	107.02	107.26	106.36	105.26
5	47.00	0.00	103.04	102.75	34.60	0.00	101.31	102.48	99.10	0.00	107.40	107.38	106.42	105.31
6	51.80	0.00	103.06	102.64	39.50	0.00	101.38	102.54	99.70	0.00	107.84	107.43	106.36	105.21
7	60.50	0.00	103.10	102.68	49.10	0.00	101.65	102.60	117.10	0.00	107.99	107.61	106.53	105.29
8	66.90	0.00	103.02	103.12	63.70	0.00	101.71	102.80	132.80	0.00	108.49	107.53	106.75	105.21
9	69.10	0.00	102.88	102.99	73.20	0.00	101.76	102.83	137.90	0.00	108.30	107.60	107.07	105.23
10	73.30	0.00	102.97	103.07	76.70	0.00	101.83	102.94	139.40	0.00	108.87	107.77	107.28	105.39
11	74.20	0.00	102.87	103.15	79.30	0.00	101.88	103.04	139.80	0.00	108.68	108.00	107.35	105.65
12	75.10	0.00	103.01	103.15	80.80	0.00	101.88	102.98	140.90	0.00	108.99	107.91	107.14	105.65
13	74.20	0.00	102.92	103.05	81.60	0.00	101.75	103.06	141.30	0.00	107.64	108.18	106.98	105.77
14	74.00	0.00	102.84	102.98	79.00	0.00	101.75	102.95	146.50	0.00	106.70	108.55	106.98	105.84
15	70.50	0.00	102.93	103.17	77.10	0.00	101.72	103.17	147.30	0.00	106.46	108.15	106.79	105.93
16	63.30	0.00	102.46	103.33	68.90	0.00	101.90	103.16	148.00	0.00	106.12	107.81	106.72	106.06
17	64.00	0.00	102.60	103.21	65.10	0.00	101.74	103.12	148.20	0.00	105.97	107.96	106.57	105.86
18	62.70	0.00	102.47	102.86	63.80	0.00	101.81	102.91	148.30	0.00	105.85	107.72	106.15	105.55
19	62.60	0.00	102.53	102.53	62.00	0.00	101.66	102.67	148.60	0.00	105.62	107.31	105.68	105.14
20	62.30	0.00	102.36	102.26	60.40	0.00	101.40	102.42	149.30	0.00	105.27	106.80	105.30	104.70
21	63.70	0.00	102.28	102.07	60.30	0.00	101.22	102.10	149.40	0.00	104.94	106.38	104.86	104.17
22	60.50	0.00	102.07	101.80	61.10	0.00	101.06	101.85	147.60	0.00	104.51	106.11	104.60	103.75
23	47.90	0.00	101.70	101.51	59.50	0.00	100.87	101.81	122.70	0.00	104.27	105.67	104.24	103.40
24	42.60	0.00	101.41	101.07	43.50	0.00	100.69	101.53	103.40	0.00	104.04	105.46	104.03	103.40

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WALLA WALLA DISTRICT HYDRO PROJECTS
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	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR :	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1 :	1.60	0.00	103.86	100.47	101.00	099.93	49.30	0.00	102.06	102.21	38.50	0.00	023.53	101.63
2 :	1.60	0.00	103.80	100.31	100.96	099.93	41.90	0.00	101.88	101.92	30.40	0.00	023.47	101.43
3 :	1.60	0.00	103.75	100.30	100.76	099.92	41.90	0.00	101.72	101.82	30.50	0.00	023.41	101.55
4 :	1.60	0.00	103.72	100.24	100.85	099.83	59.70	0.00	101.52	101.86	30.60	0.00	023.41	101.34
5 :	1.60	0.00	103.79	100.30	100.85	099.78	60.70	0.00	101.48	102.08	46.30	0.00	023.38	101.62
6 :	1.60	0.00	103.74	100.32	100.81	099.77	65.70	0.00	101.52	102.10	60.40	0.00	023.44	101.62
7 :	1.70	0.00	103.88	100.43	100.81	099.74	67.00	0.00	101.37	000.00	61.30	0.00	023.41	101.60
8 :	1.60	0.00	104.01	100.54	100.95	100.05	65.10	0.00	101.36	101.93	71.60	0.00	023.41	101.71
9 :	1.60	0.00	104.29	100.70	101.10	100.30	62.70	0.00	101.51	101.79	73.50	0.00	023.44	101.75
10 :	1.60	0.00	104.79	000.00	101.46	100.69	62.60	0.00	101.53	101.77	71.00	0.00	023.47	101.83
11 :	1.60	0.00	105.21	101.42	101.56	101.16	62.50	0.00	101.64	101.81	71.10	0.00	023.53	101.99
12 :	1.60	0.00	105.56	101.61	101.86	101.60	63.80	0.00	101.71	101.84	68.80	0.00	023.47	102.02
13 :	1.60	0.00	105.74	101.96	101.98	101.94	64.20	0.00	101.87	101.93	66.40	0.00	023.44	102.08
14 :	1.60	0.00	105.91	102.26	102.17	102.26	62.40	0.00	101.99	101.92	66.60	0.00	023.41	102.26
15 :	1.60	0.00	106.06	102.29	102.33	102.26	61.40	0.00	102.25	101.97	69.00	0.00	092.74	102.22
16 :	1.60	0.00	106.34	102.38	102.43	102.44	60.90	0.00	102.33	000.00	66.10	0.00	023.41	102.30
17 :	1.60	0.00	106.46	102.37	102.61	102.47	60.70	0.00	102.34	101.58	64.30	0.00	023.41	102.18
18 :	1.60	0.00	106.43	102.28	102.49	000.00	63.60	0.00	101.96	101.65	64.00	0.00	092.74	102.24
19 :	1.60	0.00	106.46	102.17	102.56	102.02	60.70	0.00	101.97	101.78	63.90	0.00	092.74	102.14
20 :	1.60	0.00	105.60	102.06	102.59	101.90	56.50	0.00	101.83	101.65	67.90	0.00	102.98	102.16
21 :	1.60	0.00	106.16	101.83	102.47	101.45	56.00	0.00	101.67	102.01	66.80	0.00	023.41	102.10
22 :	1.60	0.00	105.96	101.87	102.41	101.17	55.80	0.00	101.45	101.45	63.30	0.00	023.38	102.05
23 :	1.60	0.00	105.72	101.65	102.27	100.86	56.60	0.00	101.47	101.29	53.30	0.00	023.38	101.85
24 :	1.60	0.00	105.81	101.50	102.07	100.74	47.60	0.00	101.56	101.10	47.40	0.00	023.35	101.82
	LOWER MONUMENTAL			ICE HARBOR			MCNARY			PASCO				
HOUR :	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1 :	35.30	0.00	103.96	103.25	50.10	0.00	102.16	103.04	113.60	0.00	107.56	107.77	106.84	104.79
2 :	29.30	0.00	103.90	103.03	41.30	0.00	102.15	103.08	116.70	0.00	107.51	107.75	106.81	104.22
3 :	23.70	0.00	103.73	102.77	26.90	0.00	101.90	102.95	118.40	0.00	107.81	107.62	106.86	104.10
4 :	21.20	0.00	103.70	102.55	19.90	0.00	101.72	102.77	120.10	0.00	107.59	107.43	106.65	103.74
5 :	21.10	0.00	103.66	102.38	19.70	0.00	101.57	102.61	123.30	0.00	107.62	107.30	106.80	103.56
6 :	29.50	0.00	103.53	102.64	21.50	0.00	101.76	102.77	125.60	0.00	107.54	107.22	106.84	103.62
7 :	58.80	0.00	103.51	103.00	22.00	0.00	101.72	102.93	126.80	0.00	107.37	107.22	106.94	103.71
8 :	69.60	0.00	103.51	103.31	37.80	0.00	101.74	103.04	132.90	0.00	107.38	107.47	106.93	103.85
9 :	73.90	0.00	103.37	103.36	52.90	0.00	101.81	103.61	135.40	0.00	107.38	107.47	106.94	104.06
10 :	79.00	0.00	103.37	103.85	70.80	0.00	101.95	103.65	139.00	0.00	107.53	107.61	107.09	104.49
11 :	80.90	0.00	103.30	103.51	81.40	0.00	101.97	103.46	138.80	0.00	108.25	107.66	107.24	104.65
12 :	80.10	0.00	103.22	103.48	82.60	0.00	102.05	103.49	134.40	0.00	108.13	108.15	107.48	105.00
13 :	79.90	0.00	103.32	103.60	81.10	0.00	102.10	103.59	129.30	0.00	107.80	108.97	107.53	105.31
14 :	81.40	0.00	103.21	103.78	81.20	0.00	102.15	103.82	129.30	0.00	107.68	108.93	107.82	105.60
15 :	75.00	0.00	103.36	103.72	81.40	0.00	102.21	103.58	130.20	0.00	108.08	108.85	108.07	105.77
16 :	76.30	0.00	103.46	103.80	83.60	0.00	102.26	103.62	131.90	0.00	108.33	108.81	107.90	106.08
17 :	74.90	0.00	103.51	103.75	87.20	0.00	102.29	103.54	137.10	0.00	108.23	108.59	107.80	106.15
18 :	74.90	0.00	103.65	103.84	84.00	0.00	102.37	103.46	137.20	0.00	108.79	108.75	107.65	106.35
19 :	74.20	0.00	103.73	103.74	83.90	0.00	102.25	103.38	145.00	0.00	110.52	108.75	107.58	106.47
20 :	70.90	0.00	103.72	103.49	81.90	0.00	102.25	103.25	148.00	0.00	110.73	108.75	107.40	106.54
21 :	66.50	0.00	103.63	103.64	75.50	0.00	101.98	103.17	160.40	0.00	110.51	108.40	107.08	106.49
22 :	62.70	0.00	103.47	103.16	65.20	0.00	101.97	102.99	148.40	0.00	110.34	108.09	107.02	106.32
23 :	53.00	0.00	103.46	103.19	63.80	0.00	101.89	102.85	131.00	0.00	109.90	107.90	106.82	106.13
24 :	39.80	0.00	103.42	102.88	50.30	0.00	101.61	102.66	128.20	0.00	108.28	107.63	106.69	106.13

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	DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR :	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	
1 :	1.60	0.00	105.66	101.59	102.32	101.39	42.60	0.00	105.67	104.16	34.70	0.00	104.10	103.74	
2 :	1.70	0.00	105.68	101.59	102.10	101.24	49.30	0.00	105.53	103.91	41.10	0.00	103.88	103.41	
3 :	1.70	0.00	105.75	101.60	101.95	101.02	48.10	0.00	105.18	103.70	39.90	0.00	103.84	103.03	
4 :	1.70	0.00	105.49	101.35	101.68	100.73	50.50	0.00	104.69	103.49	43.70	0.00	103.61	102.91	
5 :	1.70	0.00	105.43	101.21	101.31	100.68	48.60	0.00	104.36	103.54	43.50	0.00	103.10	102.49	
6 :	1.70	0.00	105.34	101.02	101.08	100.61	40.90	0.00	103.93	103.54	38.00	0.00	102.82	102.46	
7 :	1.70	0.00	105.12	100.93	100.89	100.38	55.30	0.00	103.55	103.32	50.30	0.00	102.79	102.28	
8 :	1.70	0.00	104.91	100.80	100.67	100.26	61.40	0.00	103.35	103.19	61.30	0.00	102.78	102.27	
9 :	1.70	0.00	104.84	100.53	100.60	100.20	62.50	0.00	103.11	103.13	61.90	0.00	102.67	102.30	
10 :	1.70	0.00	104.75	100.62	100.52	100.34	67.30	0.00	103.52	103.23	64.70	0.00	102.74	102.26	
11 :	1.70	0.00	104.70	100.58	100.60	100.42	67.80	0.00	103.87	103.34	63.40	0.00	102.86	102.48	
12 :	1.70	0.00	104.77	100.57	100.54	100.42	67.60	0.00	103.76	103.49	73.00	0.00	104.11	102.48	
13 :	1.70	0.00	104.87	100.68	100.71	100.53	68.30	0.00	103.73	103.48	72.70	0.00	104.14	102.69	
14 :	1.70	0.00	104.88	100.71	100.86	100.59	64.30	0.00	103.77	103.37	72.70	0.00	104.50	102.72	
15 :	1.60	0.00	104.77	100.87	100.97	100.76	61.00	0.00	103.77	103.29	68.20	0.00	104.17	102.77	
16 :	1.60	0.00	104.62	101.10	100.94	100.88	61.20	0.00	103.83	103.33	69.30	0.00	103.30	102.77	
17 :	1.70	0.00	104.76	100.96	101.06	100.89	61.20	0.00	103.80	103.06	70.70	0.00	023.29	102.58	
18 :	1.60	0.00	104.84	100.94	101.16	100.68	61.20	0.00	103.82	103.02	67.60	0.00	023.26	102.39	
19 :	1.60	0.00	104.76	100.91	101.22	100.72	61.30	0.00	103.76	102.96	68.40	0.00	023.32	102.41	
20 :	1.60	0.00	104.37	100.73	101.10	100.51	63.80	0.00	103.42	102.90	67.10	0.00	023.59	102.19	
21 :	1.60	0.00	104.20	100.68	101.09	100.49	60.60	0.00	103.04	103.07	71.00	0.00	023.47	102.05	
22 :	1.60	0.00	104.12	100.65	101.02	100.20	60.60	0.00	102.78	102.67	70.20	0.00	023.47	102.00	
23 :	1.60	0.00	103.99	100.60	101.10	100.20	50.80	0.00	102.56	102.48	53.30	0.00	023.35	101.65	
24 :	1.60	0.00	103.92	100.54	101.07	100.04	52.40	0.00	102.25	102.43	47.90	0.00	023.44	101.57	
	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR :	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT	
1 :	30.80	0.00	104.55	103.30	29.30	0.00	104.07	104.09	59.60	0.00	111.38	107.87	107.38	108.78	
2 :	36.40	0.00	104.76	103.34	31.00	0.00	103.76	103.97	67.60	0.00	110.18	107.45	106.96	108.37	
3 :	34.90	0.00	104.35	103.08	30.00	0.00	103.51	103.76	84.50	0.00	109.27	107.55	106.74	107.63	
4 :	38.40	0.00	104.43	102.88	24.30	0.00	103.08	103.70	83.80	0.00	109.06	107.46	106.78	107.23	
5 :	36.70	0.00	104.39	102.64	25.30	0.00	102.76	103.55	100.90	0.00	108.78	107.24	106.62	106.93	
6 :	38.60	0.00	104.56	102.62	24.00	0.00	102.66	103.58	64.10	0.00	108.34	106.98	106.75	106.75	
7 :	41.50	0.00	104.13	102.49	34.70	0.00	102.94	103.59	101.00	0.00	108.56	107.07	107.10	106.46	
8 :	53.70	0.00	104.73	102.76	45.60	0.00	103.01	103.83	129.00	0.00	108.83	107.61	107.21	106.24	
9 :	63.40	0.00	104.94	103.13	61.20	0.00	103.15	104.02	135.50	0.00	109.48	108.55	107.36	106.30	
10 :	70.50	0.00	104.92	103.50	71.50	0.00	103.31	104.46	139.50	0.00	109.63	108.81	107.61	106.39	
11 :	69.30	0.00	104.29	103.53	72.00	0.00	103.29	104.39	139.40	0.00	109.63	108.96	107.89	106.50	
12 :	69.40	0.00	104.10	103.99	70.80	0.00	103.44	104.70	134.70	0.00	110.35	108.84	108.03	106.67	
13 :	72.70	0.00	104.94	104.30	73.40	0.00	103.63	104.90	132.50	0.00	111.04	108.89	108.35	106.96	
14 :	73.40	0.00	104.95	104.66	73.50	0.00	103.77	105.27	133.70	0.00	111.08	109.07	108.38	000.00	
15 :	71.90	0.00	105.13	104.61	73.50	0.00	103.31	105.09	135.80	0.00	110.96	109.20	108.22	107.92	
16 :	79.20	0.00	106.94	104.48	73.40	0.00	103.26	104.62	132.10	0.00	110.75	108.93	108.00	108.09	
17 :	76.80	0.00	105.71	104.07	73.60	0.00	103.27	104.56	136.50	0.00	110.24	108.70	107.48	107.99	
18 :	76.40	0.00	104.68	104.09	73.50	0.00	103.15	104.39	120.10	0.00	109.75	108.45	107.20	107.99	
19 :	76.40	0.00	104.24	104.16	75.00	0.00	103.27	104.13	118.60	0.00	109.41	108.39	107.01	107.50	
20 :	77.00	0.00	104.38	103.93	75.40	0.00	103.00	103.92	122.70	0.00	109.26	108.23	106.83	107.37	
21 :	83.90	0.00	104.28	103.87	84.90	0.00	102.87	103.63	121.80	0.00	108.73	108.04	106.67	106.75	
22 :	86.10	0.00	104.20	103.66	86.20	0.00	102.82	103.58	116.20	0.00	108.41	107.95	106.63	106.09	
23 :	73.10	0.00	104.14	103.81	75.80	0.00	102.58	103.47	109.00	0.00	107.98	107.90	106.72	105.54	
24 :	49.90	0.00	104.00	103.43	64.80	0.00	102.38	103.28	100.70	0.00	107.72	107.71	106.78	105.54	

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	DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	
1	1.70	0.00	104.90	101.37	101.50	100.87	31.00	0.00	101.62	102.52	30.10	0.00	106.21	103.55	
2	1.70	0.00	104.99	101.32	101.44	100.55	34.10	0.00	106.23	102.52	32.90	0.00	106.11	103.41	
3	1.70	0.00	104.84	101.32	101.17	100.42	32.80	0.00	105.93	102.29	32.00	0.00	108.01	103.56	
4	1.70	0.00	104.70	101.30	101.07	100.39	32.10	0.00	105.46	102.51	30.90	0.00	106.14	103.45	
5	1.70	0.00	104.54	101.44	100.92	100.35	42.70	0.00	105.28	103.56	29.10	0.00	105.10	103.35	
6	1.70	0.00	104.46	101.34	100.80	100.43	42.40	0.00	105.36	103.11	43.60	0.00	110.36	103.47	
7	1.70	0.00	104.58	101.37	100.83	100.34	51.50	0.00	105.67	102.99	51.60	0.00	105.21	103.47	
8	1.70	0.00	104.62	101.44	100.79	100.38	51.40	0.00	106.09	102.76	54.70	0.00	107.45	103.70	
9	1.70	0.00	104.82	101.74	100.97	100.57	51.20	0.00	106.60	102.71	54.70	0.00	109.21	103.68	
10	1.70	0.00	105.51	102.41	101.25	100.93	51.30	0.00	105.81	102.77	53.50	0.00	110.05	104.29	
11	1.70	0.00	106.19	103.08	101.88	101.69	51.10	0.00	106.47	103.12	53.50	0.00	111.71	104.53	
12	1.70	0.00	107.43	103.74	102.56	102.78	51.10	0.00	106.75	103.33	56.60	0.00	111.86	105.01	
13	1.70	0.00	108.32	104.35	102.97	103.66	50.90	0.00	107.98	103.54	53.50	0.00	106.12	105.41	
14	1.70	0.00	108.99	104.27	103.69	104.43	50.70	0.00	107.48	103.69	55.00	0.00	105.43	105.57	
15	1.70	0.00	109.05	103.97	103.74	104.06	50.30	0.00	108.46	103.98	51.90	0.00	104.79	105.55	
16	1.70	0.00	108.69	103.98	103.56	103.68	49.90	0.00	108.64	104.18	52.80	0.00	107.36	105.69	
17	1.70	0.00	108.28	103.34	103.51	103.33	50.30	0.00	108.81	104.08	56.80	0.00	106.33	105.33	
18	1.70	0.00	107.56	102.98	103.24	103.25	45.00	0.00	108.77	104.12	56.80	0.00	109.14	104.91	
19	1.70	0.00	108.28	102.79	103.21	102.91	48.10	0.00	107.99	103.68	57.90	0.00	107.32	104.78	
20	1.70	0.00	106.93	102.37	103.09	102.48	50.20	0.00	106.98	103.56	53.50	0.00	106.71	104.11	
21	1.70	0.00	106.48	102.09	102.92	102.14	44.10	0.00	106.04	103.96	48.70	0.00	106.85	104.18	
22	1.70	0.00	106.19	101.74	102.84	101.99	48.30	0.00	105.82	104.23	60.80	0.00	105.38	104.16	
23	1.70	0.00	106.01	101.66	102.62	101.72	49.30	0.00	106.80	104.36	45.70	0.00	104.81	104.01	
24	1.70	0.00	105.86	101.61	102.56	101.58	43.70	0.00	106.23	104.34	29.40	0.00	104.65	103.97	
	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT	
1	29.40	0.00	106.10	102.45	30.60	0.00	103.23	102.99	53.50	0.00	110.47	112.65	106.35	108.92	
2	30.60	0.00	104.73	102.29	30.10	0.00	102.96	103.11	60.30	0.00	109.88	111.02	106.00	108.88	
3	31.20	0.00	105.01	102.15	30.40	0.00	102.81	102.95	76.30	0.00	112.86	110.56	106.04	108.71	
4	27.50	0.00	105.47	102.21	21.60	0.00	102.88	103.00	73.90	0.00	113.22	109.39	105.95	108.49	
5	26.90	0.00	104.96	102.21	18.40	0.00	102.63	102.90	88.00	0.00	111.88	108.64	105.85	108.40	
6	27.40	0.00	103.88	102.21	18.60	0.00	102.52	102.90	100.00	0.00	111.54	107.97	105.73	108.13	
7	45.00	0.00	105.23	102.46	30.00	0.00	102.36	103.10	112.70	0.00	111.13	107.84	105.96	108.00	
8	54.20	0.00	103.28	102.58	32.50	0.00	103.05	103.65	126.50	0.00	109.52	109.69	106.23	107.88	
9	59.00	0.00	102.97	103.08	46.30	0.00	104.42	104.14	120.40	0.00	109.25	109.26	106.71	107.92	
10	59.50	0.00	103.53	103.49	59.30	0.00	105.14	104.83	118.90	0.00	109.68	110.59	107.32	108.22	
11	59.50	0.00	103.61	103.81	59.50	0.00	104.84	104.80	117.80	0.00	110.14	112.24	107.78	108.43	
12	61.10	0.00	103.83	104.09	59.60	0.00	105.33	104.81	135.90	0.00	109.43	112.85	108.29	108.72	
13	59.60	0.00	104.99	104.81	59.40	0.00	106.62	105.10	137.30	0.00	112.05	112.84	108.53	109.12	
14	61.40	0.00	106.19	105.07	59.50	0.00	105.43	105.44	138.60	0.00	117.21	112.32	108.55	109.62	
15	59.80	0.00	105.49	105.23	59.60	0.00	105.96	105.35	138.50	0.00	118.78	112.81	108.69	109.90	
16	59.60	0.00	106.60	105.25	59.80	0.00	105.81	105.45	138.70	0.00	118.12	113.29	108.50	110.29	
17	62.10	0.00	105.12	104.72	73.70	0.00	103.86	104.91	138.30	0.00	117.22	110.63	109.55	110.40	
18	61.30	0.00	104.56	104.22	76.30	0.00	106.80	104.89	146.00	0.00	116.70	111.23	110.53	110.44	
19	62.00	0.00	104.39	104.06	75.20	0.00	107.44	104.85	145.30	0.00	116.33	110.75	110.41	110.59	
20	62.40	0.00	105.94	103.98	75.30	0.00	105.24	104.68	146.30	0.00	116.23	110.25	110.04	110.47	
21	61.80	0.00	105.14	104.00	75.00	0.00	105.70	104.48	145.30	0.00	116.48	109.73	109.66	110.13	
22	61.10	0.00	104.58	103.80	65.00	0.00	103.45	104.39	110.50	0.00	114.96	109.40	108.52	109.82	
23	45.60	0.00	104.13	103.63	49.90	0.00	104.56	104.22	77.70	0.00	112.94	108.72	107.91	109.61	
24	36.30	0.00	105.24	103.62	31.40	0.00	104.46	104.20	62.40	0.00	112.36	108.23	107.82	109.61	

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	DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	
1	1.70	0.00	104.93	101.91	101.94	101.68	17.40	0.00	106.89	101.90	14.10	0.00	114.26	103.44	
2	1.70	0.00	104.80	101.93	101.70	101.27	26.50	0.00	106.63	101.96	13.90	0.00	113.48	103.37	
3	1.70	0.00	104.78	101.97	101.56	100.99	29.00	0.00	106.52	102.09	17.20	0.00	112.68	103.17	
4	1.70	0.00	104.77	101.75	101.31	100.74	40.50	0.00	106.12	102.12	17.70	0.00	112.36	103.33	
5	1.70	0.00	104.90	101.61	101.07	100.46	47.50	0.00	105.21	102.65	20.20	0.00	112.13	103.35	
6	1.70	0.00	104.90	101.64	100.88	100.24	50.60	0.00	105.90	102.72	29.70	0.00	111.65	103.55	
7	1.70	0.00	104.98	101.60	100.68	100.26	50.50	0.00	106.20	102.59	49.10	0.00	105.75	103.98	
8	1.70	0.00	105.24	101.81	100.67	100.57	50.80	0.00	105.97	102.53	57.70	0.00	108.80	104.07	
9	1.70	0.00	105.71	101.94	100.82	101.14	51.40	0.00	105.40	102.70	60.10	0.00	107.22	104.04	
10	1.70	0.00	106.16	102.40	101.05	101.66	53.50	0.00	104.88	102.51	57.80	0.00	110.47	104.32	
11	1.70	0.00	106.49	102.99	101.44	102.34	52.10	0.00	106.30	102.67	57.30	0.00	109.14	104.62	
12	1.70	0.00	106.89	103.77	101.88	103.33	43.80	0.00	105.51	102.74	57.70	0.00	108.21	104.74	
13	1.70	0.00	107.31	104.35	102.44	104.33	42.00	0.00	106.47	102.72	54.00	0.00	105.30	104.89	
14	1.70	0.00	107.68	104.60	102.80	104.81	38.70	0.00	105.94	102.76	53.40	0.00	106.23	104.65	
15	1.70	0.00	107.81	104.76	102.91	105.11	39.10	0.00	104.76	102.75	47.00	0.00	104.26	104.70	
16	1.70	0.00	107.66	104.96	102.88	105.01	42.00	0.00	104.67	102.81	46.50	0.00	105.24	104.58	
17	1.70	0.00	107.57	104.19	102.80	104.51	34.40	0.00	104.07	102.74	44.10	0.00	105.84	104.63	
18	1.70	0.00	106.84	103.77	102.37	103.71	37.00	0.00	103.89	102.58	42.90	0.00	104.75	104.33	
19	1.70	0.00	107.57	103.17	102.14	103.14	37.30	0.00	104.04	102.56	43.00	0.00	104.33	104.12	
20	1.70	0.00	105.71	102.57	102.03	102.58	41.30	0.00	104.01	102.56	45.80	0.00	104.06	103.94	
21	1.70	0.00	105.35	102.16	101.97	102.00	45.30	0.00	104.86	102.37	50.00	0.00	104.01	103.88	
22	1.70	0.00	105.13	101.82	101.80	101.41	48.50	0.00	105.93	UNDEF	57.10	0.00	103.90	103.72	
23	1.70	0.00	105.00	101.72	101.66	101.14	50.40	0.00	104.52	102.55	43.40	0.00	105.48	103.67	
24	1.70	0.00	104.84	101.53	101.67	101.00	45.40	0.00	105.36	102.38	37.40	0.00	106.12	103.53	
	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT	
1	13.60	0.00	107.27	101.93	13.10	0.00	103.11	103.12	61.90	0.00	111.77	110.78	107.25	108.57	
2	13.50	0.00	107.89	101.82	12.90	0.00	102.66	103.20	62.10	0.00	110.77	110.31	106.94	108.65	
3	13.50	0.00	107.97	101.89	10.10	0.00	103.08	102.82	61.20	0.00	110.41	109.27	106.42	108.43	
4	13.70	0.00	107.94	102.00	10.20	0.00	104.38	102.69	52.50	0.00	110.13	108.50	106.46	108.30	
5	19.90	0.00	107.68	102.01	10.10	0.00	103.59	102.67	60.60	0.00	109.51	108.04	106.39	108.13	
6	21.00	0.00	106.69	102.06	12.70	0.00	103.92	102.60	88.80	0.00	108.95	108.13	106.20	107.99	
7	33.60	0.00	105.96	102.39	13.10	0.00	103.59	102.95	118.20	0.00	107.39	107.91	106.44	107.72	
8	48.60	0.00	104.87	102.94	29.00	0.00	103.96	103.58	129.20	0.00	105.61	107.90	106.62	107.69	
9	62.10	0.00	103.76	103.10	45.90	0.00	103.29	104.19	129.30	0.00	107.35	108.03	106.64	107.81	
10	62.90	0.00	104.87	103.16	64.20	0.00	102.88	104.60	137.20	0.00	106.75	108.79	106.51	107.99	
11	63.20	0.00	104.19	103.28	64.40	0.00	102.33	104.38	137.90	0.00	106.30	109.10	106.63	108.17	
12	62.70	0.00	104.32	103.39	64.30	0.00	102.73	104.41	138.20	0.00	105.36	109.08	106.78	108.48	
13	62.80	0.00	104.11	103.44	64.40	0.00	102.37	104.47	138.00	0.00	105.11	109.04	107.10	108.80	
14	63.10	0.00	104.03	103.69	64.40	0.00	102.92	104.78	138.20	0.00	108.62	108.22	106.98	109.07	
15	59.90	0.00	104.42	103.55	60.80	0.00	103.22	104.52	137.70	0.00	114.17	108.80	106.87	109.41	
16	57.20	0.00	104.29	103.61	60.50	0.00	102.46	104.58	137.60	0.00	115.06	108.10	106.99	109.75	
17	49.40	0.00	104.34	104.00	56.80	0.00	102.14	104.34	137.40	0.00	115.08	107.73	106.75	109.91	
18	47.60	0.00	103.59	103.93	54.10	0.00	103.95	104.21	137.10	0.00	116.61	107.64	106.78	110.00	
19	49.30	0.00	103.31	103.51	53.10	0.00	104.14	103.93	137.20	0.00	117.54	109.38	106.59	110.12	
20	48.10	0.00	103.13	102.98	53.10	0.00	104.16	103.66	137.60	0.00	116.22	109.27	106.41	109.98	
21	48.70	0.00	105.55	102.86	53.10	0.00	103.45	103.46	136.40	0.00	114.54	109.29	106.46	109.88	
22	51.30	0.00	103.72	102.73	52.50	0.00	104.03	103.40	109.70	0.00	112.45	110.61	106.53	109.72	
23	44.90	0.00	105.45	102.68	45.30	0.00	104.55	103.23	55.00	0.00	112.67	110.95	106.19	109.54	
24	36.00	0.00	106.25	102.52	35.30	0.00	104.15	103.21	53.10	0.00	110.96	111.85	106.46	109.54	

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	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.70	0.00	103.76	101.82	101.94	101.82	14.30	0.00	101.61	100.43	12.90	0.00	109.43	100.97
2	1.70	0.00	103.64	101.72	101.66	101.45	14.60	0.00	100.51	99.99	12.60	0.00	109.71	100.81
3	1.70	0.00	103.37	101.56	101.53	101.03	32.50	0.00	100.91	100.68	12.60	0.00	108.91	100.84
4	1.70	0.00	103.34	101.44	101.21	100.75	36.90	0.00	101.32	100.65	13.60	0.00	109.43	100.84
5	1.70	0.00	103.46	101.44	100.96	100.46	42.10	0.00	102.12	101.06	27.60	0.00	108.51	100.84
6	1.70	0.00	103.58	101.29	100.70	100.13	47.00	0.00	104.09	100.78	45.90	0.00	108.48	101.20
7	1.70	0.00	103.68	101.22	100.58	100.09	45.80	0.00	103.93	100.61	45.00	0.00	106.82	101.41
8	1.70	0.00	104.05	101.45	100.70	100.64	44.30	0.00	104.20	100.60	43.70	0.00	106.68	101.56
9	1.70	0.00	104.37	102.09	100.98	101.73	44.20	0.00	104.25	100.60	47.40	0.00	105.78	101.74
10	1.70	0.00	105.11	102.70	101.65	102.90	41.20	0.00	104.56	100.82	49.10	0.00	105.70	101.97
11	1.70	0.00	105.77	103.60	102.28	104.05	40.50	0.00	104.89	101.03	49.70	0.00	107.75	102.29
12	1.70	0.00	106.32	104.55	103.04	105.20	40.90	0.00	104.96	101.20	47.30	0.00	106.24	103.15
13	1.70	0.00	106.87	105.19	103.60	106.16	40.40	0.00	104.97	101.49	49.90	0.00	108.91	103.27
14	1.70	0.00	107.22	105.82	104.33	107.04	40.20	0.00	105.55	101.74	49.10	0.00	108.70	103.34
15	1.70	0.00	107.47	106.23	104.56	107.73	39.80	0.00	105.42	101.80	49.80	0.00	110.04	103.56
16	1.70	0.00	107.74	106.35	104.77	107.96	38.60	0.00	106.99	102.15	40.10	0.00	110.57	103.73
17	1.70	0.00	107.69	106.01	104.90	107.63	35.20	0.00	106.56	101.98	39.40	0.00	112.53	103.82
18	1.70	0.00	107.49	105.28	104.70	107.08	34.70	0.00	106.77	101.83	43.70	0.00	108.56	103.76
19	1.70	0.00	107.69	104.81	104.21	106.17	34.80	0.00	108.17	101.87	43.10	0.00	115.84	103.71
20	1.70	0.00	106.14	103.95	103.70	104.96	32.10	0.00	106.72	101.78	41.90	0.00	109.51	103.72
21	1.70	0.00	105.41	103.40	103.17	103.96	31.80	0.00	107.52	101.74	41.50	0.00	106.91	103.59
22	1.70	0.00	104.98	102.74	102.72	103.29	31.20	0.00	107.25	101.98	40.90	0.00	109.82	103.57
23	1.70	0.00	104.95	102.45	102.41	102.64	19.20	0.00	107.53	101.87	20.50	0.00	110.15	103.56
24	1.70	0.00	105.11	102.10	102.14	102.07	17.40	0.00	106.30	102.06	14.20	0.00	115.44	103.59

HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO	
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	15.20	0.00	104.08	*****	11.60	0.00	102.55	102.02	75.80	0.00	107.65	107.63	105.37	107.36
2	13.80	0.00	104.79	?UNDEF	10.10	0.00	102.96	101.91	68.20	0.00	112.73	107.17	105.24	107.22
3	13.50	0.00	104.62	000.00	11.50	0.00	103.09	101.99	60.40	0.00	113.14	108.20	105.25	106.94
4	15.30	0.00	105.01	101.01	10.20	0.00	103.11	102.15	60.30	0.00	111.41	109.14	105.51	106.84
5	14.50	0.00	104.74	100.70	10.10	0.00	103.12	102.02	63.50	0.00	110.46	109.83	105.13	106.69
6	15.50	0.00	104.60	101.59	11.80	0.00	102.55	102.41	100.40	0.00	111.02	110.20	105.38	106.50
7	40.20	0.00	103.90	101.75	20.90	0.00	102.25	102.56	120.00	0.00	109.40	111.08	105.59	106.34
8	44.00	0.00	103.21	102.04	43.20	0.00	102.63	103.46	127.10	0.00	108.70	110.93	105.72	106.30
9	52.00	0.00	102.18	*****	53.30	0.00	102.94	103.52	128.60	0.00	107.77	110.95	105.99	106.49
10	50.90	0.00	102.53	*****	54.70	0.00	103.63	103.85	128.40	0.00	108.81	110.71	106.47	106.65
11	48.90	0.00	102.43	*****	48.00	0.00	104.23	103.75	118.50	0.00	110.89	110.13	106.71	106.98
12	48.90	0.00	104.38	102.93	47.80	0.00	104.44	104.12	118.10	0.00	112.28	109.67	106.80	107.46
13	49.00	0.00	104.25	103.28	48.00	0.00	104.80	104.39	118.30	0.00	114.83	110.21	106.95	107.89
14	51.30	0.00	102.86	103.40	54.70	0.00	107.06	104.39	117.40	0.00	113.86	112.95	107.18	108.21
15	53.40	0.00	103.09	103.26	56.80	0.00	109.22	104.81	117.60	0.00	111.81	114.67	107.53	108.50
16	53.20	0.00	103.58	103.41	57.70	0.00	107.37	104.67	117.40	0.00	111.56	114.38	107.85	108.76
17	53.50	0.00	103.94	103.70	56.70	0.00	107.62	104.38	117.20	0.00	108.32	113.54	107.96	109.01
18	59.10	0.00	103.61	103.59	56.80	0.00	105.84	104.25	148.20	0.00	109.63	113.02	107.65	109.07
19	60.00	0.00	103.32	103.02	56.90	0.00	105.15	103.95	160.50	0.00	110.80	113.48	107.52	109.20
20	59.30	0.00	104.14	102.60	59.60	0.00	106.74	103.81	160.50	0.00	115.63	114.08	107.84	109.33
21	41.50	0.00	106.54	102.40	59.80	0.00	108.06	103.68	154.60	0.00	117.10	113.56	107.66	109.32
22	40.80	0.00	105.62	102.48	60.00	0.00	107.26	103.70	152.70	0.00	115.51	111.91	107.40	109.17
23	21.50	0.00	105.02	102.24	42.20	0.00	105.56	103.60	86.90	0.00	113.38	111.23	107.18	109.11
24	13.80	0.00	105.67	102.05	24.60	0.00	104.10	103.47	62.20	0.00	112.49	110.47	106.89	109.11

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DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	
1	1.70	0.00	103.31	101.10	101.01	100.41	16.00	0.00	100.29	099.23	13.20	0.00	100.92	099.96	
2	1.70	0.00	103.28	101.04	100.84	100.15	18.00	0.00	100.13	099.36	13.40	0.00	100.90	099.92	
3	1.70	0.00	103.28	101.07	100.82	099.83	28.90	0.00	100.92	100.52	13.30	0.00	100.72	099.78	
4	1.70	0.00	103.27	100.88	100.71	099.68	28.90	0.00	101.45	100.24	13.30	0.00	100.72	099.79	
5	1.70	0.00	103.30	100.75	100.72	099.57	33.60	0.00	101.49	100.52	13.60	0.00	100.88	099.83	
6	1.70	0.00	103.16	100.76	100.55	099.41	39.10	0.00	101.60	100.37	34.70	0.00	100.98	099.80	
7	1.70	0.00	103.21	100.70	100.54	099.49	41.30	0.00	101.57	100.40	42.60	0.00	100.96	100.04	
8	1.70	0.00	103.32	101.11	100.60	100.15	41.60	0.00	101.79	100.35	43.50	0.00	101.08	100.15	
9	1.70	0.00	103.75	101.65	100.98	101.27	42.10	0.00	102.25	100.41	44.20	0.00	101.35	100.16	
10	1.70	0.00	104.24	102.41	101.69	102.56	37.10	0.00	102.96	100.43	42.00	0.00	101.63	100.20	
11	1.70	0.00	104.60	103.30	102.56	103.82	38.80	0.00	103.54	100.61	38.10	0.00	101.99	100.38	
12	1.70	0.00	105.12	104.15	103.37	105.00	35.20	0.00	103.74	100.94	38.30	0.00	102.70	100.64	
13	1.70	0.00	105.50	104.94	103.83	106.15	32.70	0.00	104.12	101.05	37.60	0.00	103.46	100.82	
14	1.70	0.00	105.89	105.54	104.66	107.13	32.60	0.00	105.00	101.01	40.30	0.00	103.71	101.04	
15	1.70	0.00	106.26	105.92	104.92	107.78	32.20	0.00	105.12	101.12	38.90	0.00	102.09	101.25	
16	1.70	0.00	106.47	105.99	105.35	108.16	32.70	0.00	104.16	101.05	39.70	0.00	103.04	101.34	
17	1.70	0.00	106.24	105.85	105.33	108.22	31.70	0.00	104.14	100.95	40.10	0.00	103.41	101.56	
18	1.70	0.00	105.90	105.06	105.14	107.79	32.50	0.00	103.53	101.56	33.70	0.00	104.43	101.62	
19	1.70	0.00	106.24	104.52	104.67	106.74	33.90	0.00	103.07	100.71	32.50	0.00	106.01	101.57	
20	1.70	0.00	104.71	103.84	103.93	105.50	34.10	0.00	103.73	100.68	36.20	0.00	105.93	101.56	
21	1.70	0.00	104.09	103.04	103.32	104.25	34.60	0.00	104.90	100.80	38.00	0.00	104.04	101.41	
22	1.70	0.00	103.65	102.63	102.81	103.42	33.70	0.00	104.08	100.90	40.20	0.00	104.04	101.35	
23	1.70	0.00	103.77	102.21	102.36	102.76	15.80	0.00	103.05	100.39	20.90	0.00	106.21	101.24	
24	1.70	0.00	103.77	101.93	102.07	102.27	14.00	0.00	102.24	100.55	13.50	0.00	105.82	101.11	
LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT	
1	14.10	0.00	100.85	000.00	11.00	0.00	100.77	100.82	73.80	0.00	104.87	104.51	103.76	105.10	
2	15.30	0.00	100.72	*****	11.00	0.00	100.50	100.75	69.70	0.00	104.72	104.45	103.78	104.95	
3	13.70	0.00	100.66	*****	10.80	0.00	100.63	100.60	68.70	0.00	105.54	104.45	103.74	104.82	
4	13.80	0.00	100.62	042.27	12.30	0.00	100.60	100.56	69.80	0.00	106.72	104.72	103.76	104.53	
5	13.80	0.00	100.66	989.42	10.80	0.00	100.21	100.59	83.00	0.00	106.72	104.86	103.76	104.40	
6	15.90	0.00	100.66	989.69	11.30	0.00	100.22	100.62	121.20	0.00	106.34	105.05	104.04	104.31	
7	27.90	0.00	100.64	?UNDEF	18.70	0.00	100.07	101.04	126.90	0.00	105.80	105.26	104.16	104.28	
8	38.80	0.00	100.73	?UNDEF	34.80	0.00	100.27	102.02	119.40	0.00	105.64	105.24	104.39	104.23	
9	46.00	0.00	101.15	000.00	39.30	0.00	100.97	101.95	110.10	0.00	106.58	105.53	104.55	104.25	
10	45.70	0.00	101.60	990.00	47.40	0.00	101.56	102.34	107.70	0.00	107.19	105.69	104.74	104.57	
11	45.60	0.00	102.15	990.77	46.40	0.00	102.24	102.16	107.70	0.00	107.66	105.89	105.04	104.86	
12	43.70	0.00	101.19	996.11	46.40	0.00	103.08	102.99	108.20	0.00	107.32	106.88	105.39	105.24	
13	42.00	0.00	101.01	*****	43.60	0.00	103.95	103.47	108.60	0.00	106.89	106.73	105.78	105.70	
14	40.10	0.00	100.82	*****	44.90	0.00	103.14	103.78	107.10	0.00	105.77	106.69	105.86	106.19	
15	40.50	0.00	101.05	?UNDEF	44.20	0.00	102.19	103.71	107.80	0.00	110.52	107.05	106.00	106.67	
16	40.90	0.00	100.96	?UNDEF	45.10	0.00	102.12	103.77	107.90	0.00	115.49	107.15	105.95	107.05	
17	40.30	0.00	101.60	?UNDEF	46.60	0.00	103.00	103.86	107.10	0.00	112.91	107.73	105.99	107.41	
18	42.80	0.00	103.14	?UNDEF	43.60	0.00	102.66	103.70	108.40	0.00	109.95	107.95	105.92	107.62	
19	39.90	0.00	102.68	?UNDEF	45.00	0.00	101.80	103.68	133.40	0.00	110.52	108.54	106.00	107.69	
20	42.50	0.00	103.05	?UNDEF	40.90	0.00	102.24	103.38	138.90	0.00	109.36	108.54	106.01	107.66	
21	42.50	0.00	102.37	000.00	40.60	0.00	102.32	103.22	140.60	0.00	107.59	108.49	105.81	107.63	
22	41.80	0.00	102.20	*****	42.30	0.00	102.53	102.77	140.30	0.00	108.46	108.48	105.66	107.57	
23	28.90	0.00	102.23	997.96	24.90	0.00	102.69	102.56	101.60	0.00	108.61	107.55	105.53	107.59	
24	15.90	0.00	104.20	998.69	19.40	0.00	101.90	102.16	84.90	0.00	107.54	108.61	105.37	107.59	

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	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.80	0.00	100.97	101.36	101.16	100.84	17.10	0.00	100.62	999.85	16.20	0.00	100.44	999.46
2	1.80	0.00	101.08	101.37	101.11	100.51	25.90	0.00	101.33	999.95	20.20	0.00	100.48	999.50
3	1.80	0.00	101.03	101.22	100.86	100.36	27.70	0.00	101.15	100.07	17.70	0.00	100.32	999.47
4	1.80	0.00	100.88	101.18	100.71	100.33	36.30	0.00	100.96	100.16	22.10	0.00	100.37	999.42
5	1.80	0.00	100.69	101.17	100.61	100.19	43.60	0.00	100.95	100.40	35.20	0.00	100.51	999.43
6	1.80	0.00	100.65	101.13	100.36	100.01	42.80	0.00	101.34	100.28	39.50	0.00	100.67	999.43
7	1.80	0.00	100.76	101.11	100.32	999.99	40.60	0.00	100.91	100.11	44.40	0.00	100.76	999.52
8	1.80	0.00	101.00	101.15	100.44	100.35	40.40	0.00	100.43	999.89	44.60	0.00	100.68	999.44
9	1.80	0.00	101.38	101.57	100.67	101.16	39.40	0.00	100.71	100.01	42.50	0.00	100.55	999.59
10	1.80	0.00	101.64	102.27	101.05	102.22	39.30	0.00	100.79	100.05	41.90	0.00	100.40	999.73
11	1.80	0.00	101.78	102.40	101.34	102.71	39.80	0.00	102.04	100.04	39.60	0.00	100.75	999.83
12	1.80	0.00	101.63	102.79	101.49	102.98	37.20	0.00	102.16	999.89	41.30	0.00	100.61	999.93
13	1.80	0.00	101.78	103.13	101.65	103.11	37.40	0.00	103.47	100.03	40.50	0.00	100.77	100.09
14	1.70	0.00	101.91	103.53	101.91	103.51	39.30	0.00	104.58	100.23	41.00	0.00	100.84	100.38
15	1.70	0.00	102.60	103.77	102.08	104.34	37.60	0.00	103.30	100.24	41.80	0.00	100.83	100.41
16	1.70	0.00	103.57	104.08	102.21	104.38	39.40	0.00	102.13	100.12	41.70	0.00	100.97	100.29
17	1.70	0.00	103.82	103.77	102.52	104.07	39.20	0.00	101.58	100.12	41.60	0.00	100.85	100.27
18	1.70	0.00	104.10	103.34	102.50	103.94	36.80	0.00	101.28	999.96	40.40	0.00	100.85	100.16
19	1.70	0.00	103.82	102.98	102.34	103.45	36.90	0.00	100.92	999.83	40.10	0.00	101.03	100.20
20	1.70	0.00	104.06	102.54	102.16	102.77	33.30	0.00	100.85	999.65	37.60	0.00	100.96	100.01
21	1.70	0.00	103.57	102.05	101.87	102.04	29.30	0.00	100.52	999.99	39.60	0.00	101.04	999.96
22	1.70	0.00	103.27	101.61	101.49	101.43	28.00	0.00	999.96	999.88	36.20	0.00	101.01	999.95
23	1.70	0.00	103.41	101.46	101.42	101.04	16.90	0.00	999.69	999.32	21.20	0.00	101.01	999.92
24	1.70	0.00	103.36	101.29	101.11	100.69	14.30	0.00	999.67	999.16	15.90	0.00	100.98	999.88
	LOWER MONUMENTAL			ICE HARBOR			MCNARY			PASCO				
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	15.40	0.00	101.14	?UNDEF	18.80	0.00	100.60	101.00	64.60	0.00	105.25	104.83	104.13	104.85
2	14.50	0.00	100.98	?UNDEF	13.00	0.00	100.50	101.00	64.90	0.00	105.42	105.14	104.03	104.47
3	14.60	0.00	100.94	?UNDEF	11.50	0.00	100.37	100.74	78.50	0.00	105.54	105.26	103.88	104.19
4	14.50	0.00	100.90	?UNDEF	11.40	0.00	100.33	100.59	79.70	0.00	105.66	105.26	103.61	103.94
5	19.20	0.00	100.80	?UNDEF	13.00	0.00	100.31	100.46	78.10	0.00	105.59	105.08	103.60	103.77
6	39.20	0.00	100.81	?UNDEF	12.20	0.00	100.04	100.42	81.70	0.00	105.59	104.94	103.86	103.62
7	42.10	0.00	100.89	?UNDEF	29.00	0.00	100.04	100.98	101.80	0.00	105.58	104.88	103.82	103.46
8	41.60	0.00	101.00	?UNDEF	40.10	0.00	100.10	102.04	107.50	0.00	105.67	104.84	104.11	103.42
9	41.50	0.00	101.01	?UNDEF	42.20	0.00	100.31	101.69	108.50	0.00	105.64	104.85	104.11	103.43
10	43.20	0.00	100.94	?UNDEF	46.30	0.00	100.56	101.94	109.50	0.00	105.74	104.80	104.20	103.48
11	46.00	0.00	100.92	?UNDEF	46.40	0.00	100.55	101.92	109.50	0.00	105.55	104.92	104.48	103.72
12	45.90	0.00	100.94	?UNDEF	48.10	0.00	100.68	102.20	108.70	0.00	105.71	105.08	104.63	103.98
13	46.40	0.00	100.86	?UNDEF	47.60	0.00	100.58	102.19	108.70	0.00	105.96	105.08	104.85	104.25
14	46.20	0.00	100.86	?UNDEF	46.60	0.00	100.69	102.41	109.70	0.00	105.99	105.09	104.78	104.55
15	45.70	0.00	100.84	?UNDEF	46.30	0.00	100.75	102.27	121.50	0.00	106.34	105.28	104.66	104.85
16	45.50	0.00	100.90	?UNDEF	47.60	0.00	100.67	102.27	122.40	0.00	106.70	105.20	104.61	105.29
17	44.70	0.00	101.04	000.00	46.00	0.00	100.55	102.30	120.00	0.00	107.27	105.35	104.56	105.55
18	46.10	0.00	101.04	*****	45.80	0.00	100.42	102.32	119.30	0.00	107.77	105.35	104.69	105.71
19	44.30	0.00	101.02	?UNDEF	46.00	0.00	100.59	101.93	119.20	0.00	107.65	105.24	104.58	105.70
20	44.00	0.00	101.02	*****	46.80	0.00	100.45	101.75	120.40	0.00	108.03	105.39	104.46	105.83
21	45.10	0.00	101.06	*****	46.00	0.00	100.37	101.51	122.10	0.00	107.93	105.04	104.19	105.79
22	43.10	0.00	101.05	*****	45.50	0.00	100.21	101.38	117.20	0.00	107.77	104.74	104.19	105.60
23	29.10	0.00	101.06	996.86	32.10	0.00	100.58	101.31	87.10	0.00	106.93	104.70	103.87	105.43
24	15.00	0.00	100.87	?UNDEF	18.60	0.00	100.68	101.18	71.10	0.00	105.70	104.39	103.65	105.43

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HOUR	DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS
1	1.80	0.00	101.07	100.97	100.68	100.70	16.60	0.00	101.49	100.99	21.30	0.00	101.74	100.21		
2	1.80	0.00	101.06	100.78	100.54	100.43	16.20	0.00	102.69	100.43	14.30	0.00	101.84	100.29		
3	1.80	0.00	101.03	100.77	100.41	100.11	27.40	0.00	102.53	100.78	20.00	0.00	101.81	100.17		
4	1.80	0.00	101.13	100.54	100.28	099.79	34.20	0.00	102.86	101.18	22.30	0.00	101.73	100.09		
5	1.80	0.00	100.91	100.43	100.14	099.65	34.20	0.00	103.11	101.11	23.60	0.00	101.30	100.04		
6	1.80	0.00	100.84	100.35	099.88	099.44	38.40	0.00	102.79	101.34	32.30	0.00	100.84	100.00		
7	1.80	0.00	100.91	100.43	099.88	099.38	38.90	0.00	102.17	101.12	39.70	0.00	100.95	099.97		
8	1.80	0.00	101.33	100.52	099.95	099.76	37.30	0.00	101.64	100.77	40.20	0.00	100.75	099.75		
9	1.80	0.00	101.70	100.87	100.36	100.24	38.00	0.00	101.45	100.80	40.20	0.00	100.75	099.76		
10	1.80	0.00	102.10	101.45	100.96	101.55	37.40	0.00	101.18	100.79	40.30	0.00	100.57	099.88		
11	1.80	0.00	102.53	102.32	101.48	102.67	37.20	0.00	100.99	100.77	40.20	0.00	100.73	099.89		
12	1.80	0.00	102.88	103.19	102.21	103.90	37.30	0.00	101.03	100.92	40.40	0.00	100.51	100.07		
13	1.80	0.00	103.06	103.94	102.70	104.78	37.20	0.00	100.97	101.12	41.90	0.00	100.40	100.07		
14	1.80	0.00	103.25	104.23	103.03	105.06	37.80	0.00	100.50	101.04	41.80	0.00	100.27	100.08		
15	1.80	0.00	103.27	103.96	103.42	105.41	37.00	0.00	100.50	101.07	43.70	0.00	100.59	100.31		
16	1.80	0.00	103.29	103.89	103.42	104.87	36.80	0.00	100.82	100.98	37.90	0.00	100.50	100.31		
17	1.80	0.00	103.02	103.47	103.16	104.37	35.80	0.00	100.78	100.82	37.90	0.00	100.64	100.19		
18	1.80	0.00	102.62	103.17	102.88	103.96	35.80	0.00	100.60	100.64	41.10	0.00	100.35	100.13		
19	1.80	0.00	103.02	102.90	102.50	103.36	30.70	0.00	100.50	100.35	37.00	0.00	100.59	100.08		
20	1.80	0.00	101.87	102.60	102.01	102.82	30.20	0.00	100.74	100.09	36.40	0.00	100.37	099.96		
21	1.80	0.00	101.68	102.22	101.70	102.20	31.90	0.00	100.76	100.08	32.90	0.00	100.47	099.88		
22	1.80	0.00	101.34	101.76	101.53	101.65	27.70	0.00	101.08	100.05	29.00	0.00	100.19	099.83		
23	1.80	0.00	101.20	101.64	101.38	101.33	27.50	0.00	101.37	100.16	28.40	0.00	100.12	099.84		
24	1.80	0.00	100.99	101.41	101.19	101.00	18.80	0.00	101.18	099.87	18.30	0.00	100.08	099.60		
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT		
1	31.60	0.00	102.15	?UNDEF	34.80	0.00	101.21	101.74	57.60	0.00	109.86	106.57	105.54	105.44		
2	14.70	0.00	101.81	?UNDEF	24.90	0.00	100.80	101.56	56.30	0.00	109.15	106.36	105.76	105.32		
3	18.10	0.00	101.52	?UNDEF	18.40	0.00	100.63	101.41	55.50	0.00	108.58	106.16	105.76	104.98		
4	19.90	0.00	101.07	?UNDEF	12.60	0.00	100.59	101.11	74.40	0.00	108.14	106.68	105.28	104.82		
5	21.60	0.00	100.99	?UNDEF	12.70	0.00	100.54	100.91	75.10	0.00	107.70	106.87	105.40	104.78		
6	21.60	0.00	100.81	?UNDEF	13.00	0.00	100.37	100.90	80.00	0.00	107.64	106.58	105.20	104.60		
7	29.10	0.00	101.42	?UNDEF	23.30	0.00	100.42	101.00	87.60	0.00	108.01	106.12	105.00	104.41		
8	39.40	0.00	100.72	?UNDEF	27.30	0.00	100.22	101.80	94.80	0.00	107.12	106.33	105.08	104.34		
9	39.80	0.00	101.13	?UNDEF	36.10	0.00	100.24	102.12	100.10	0.00	106.59	106.16	105.09	104.28		
10	43.40	0.00	101.24	?UNDEF	42.30	0.00	100.18	102.94	104.40	0.00	107.00	106.33	105.21	104.53		
11	42.00	0.00	101.50	?UNDEF	42.70	0.00	099.95	102.62	105.60	0.00	107.90	106.37	105.35	104.78		
12	46.10	0.00	101.81	?UNDEF	45.50	0.00	100.01	102.69	100.60	0.00	107.75	106.76	105.35	105.32		
13	45.60	0.00	101.58	?UNDEF	47.20	0.00	100.36	102.86	100.30	0.00	106.95	106.99	105.52	105.73		
14	46.30	0.00	101.65	?UNDEF	47.80	0.00	100.18	102.77	93.70	0.00	107.41	107.15	105.68	106.18		
15	44.70	0.00	102.05	?UNDEF	47.20	0.00	100.28	102.65	92.80	0.00	107.29	106.86	105.33	106.46		
16	44.70	0.00	101.99	?UNDEF	47.00	0.00	100.34	102.41	80.70	0.00	107.35	106.54	105.14	106.77		
17	40.10	0.00	101.88	?UNDEF	43.60	0.00	100.13	102.19	77.80	0.00	107.24	106.43	105.13	106.81		
18	38.90	0.00	101.83	?UNDEF	42.10	0.00	100.29	102.07	72.90	0.00	107.14	105.78	104.80	106.79		
19	39.60	0.00	101.67	?UNDEF	43.60	0.00	100.13	101.82	72.90	0.00	106.88	105.21	104.73	106.65		
20	37.90	0.00	101.77	?UNDEF	42.30	0.00	100.01	101.54	73.20	0.00	106.86	104.74	104.57	106.35		
21	38.40	0.00	101.69	?UNDEF	42.10	0.00	100.05	101.37	73.60	0.00	106.86	104.88	104.12	106.00		
22	31.10	0.00	101.37	?UNDEF	36.20	0.00	100.45	101.22	73.20	0.00	106.55	104.84	104.01	105.75		
23	30.90	0.00	101.34	?UNDEF	36.10	0.00	100.70	101.06	73.10	0.00	106.44	105.09	104.10	105.49		
24	31.90	0.00	101.30	?UNDEF	33.90	0.00	100.66	101.02	64.50	0.00	106.26	104.94	104.36	105.49		

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	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.
1	1.60	0.00	105.66	100.94	100.91	100.18	14.10	0.00	103.49	101.90	17.80	0.00	103.30	100.68
2	1.60	0.00	105.54	100.83	100.91	099.89	14.80	0.00	103.46	101.59	14.10	0.00	101.86	100.79
3	1.70	0.00	105.21	100.80	100.69	099.70	16.90	0.00	103.11	101.68	17.30	0.00	101.70	100.72
4	1.60	0.00	105.15	100.77	100.63	099.51	41.20	0.00	102.77	102.44	17.50	0.00	102.05	100.67
5	1.60	0.00	105.12	100.69	100.46	099.45	41.80	0.00	102.59	103.05	24.90	0.00	102.15	100.63
6	1.60	0.00	105.05	100.62	100.46	099.24	41.60	0.00	102.40	102.60	30.70	0.00	102.19	100.47
7	1.60	0.00	104.93	100.53	100.39	099.18	45.20	0.00	102.45	102.23	51.60	0.00	101.72	100.52
8	1.70	0.00	104.92	100.74	100.42	099.66	49.90	0.00	102.28	102.08	49.00	0.00	102.10	100.44
9	1.60	0.00	105.21	101.15	100.73	100.47	42.60	0.00	102.55	101.91	58.30	0.00	102.44	100.40
10	1.60	0.00	105.59	101.88	101.24	101.70	44.90	0.00	102.57	101.91	55.40	0.00	101.34	100.45
11	1.60	0.00	106.15	102.70	102.09	102.75	42.40	0.00	102.68	101.92	47.40	0.00	102.16	100.59
12	1.60	0.00	106.42	103.37	102.77	103.86	38.00	0.00	102.87	101.95	45.00	0.00	104.92	100.74
13	1.70	0.00	106.73	103.82	103.20	104.96	37.00	0.00	103.02	102.12	42.90	0.00	104.27	101.06
14	1.60	0.00	106.60	104.24	103.54	105.64	30.70	0.00	102.25	102.03	39.60	0.00	104.18	101.20
15	1.60	0.00	106.61	104.36	103.62	105.80	29.10	0.00	102.43	102.08	35.60	0.00	103.51	101.29
16	1.60	0.00	106.52	104.42	103.77	105.95	33.40	0.00	102.61	102.07	35.20	0.00	102.33	101.31
17	1.70	0.00	106.35	104.26	103.78	106.10	34.50	0.00	102.74	101.95	35.30	0.00	102.12	101.30
18	1.80	0.00	106.19	103.85	103.66	105.71	32.90	0.00	102.71	101.64	35.20	0.00	102.02	101.15
19	1.80	0.00	106.35	103.27	103.39	104.59	44.40	0.00	102.97	101.63	37.70	0.00	102.53	101.17
20	1.80	0.00	103.64	102.68	102.83	103.75	48.80	0.00	102.66	101.69	47.00	0.00	101.91	101.07
21	1.80	0.00	102.27	102.02	102.21	102.83	47.30	0.00	102.37	102.00	47.40	0.00	101.36	100.83
22	1.80	0.00	101.51	101.65	101.56	102.10	50.10	0.00	102.15	101.69	53.00	0.00	101.19	100.61
23	1.80	0.00	101.47	101.32	101.08	101.60	29.00	0.00	101.72	101.23	33.30	0.00	101.14	100.43
24	1.80	0.00	101.37	101.13	100.83	101.17	17.30	0.00	101.55	100.90	34.70	0.00	101.10	100.37
	LOWER MONUMENTAL			ICE HARBOR			MCNARY			PASCO				
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	14.40	0.00	104.11	?UNDEF	19.50	0.00	102.18	102.83	78.90	0.00	106.02	110.53	107.26	106.57
2	16.00	0.00	103.52	?UNDEF	11.60	0.00	102.53	102.54	81.00	0.00	105.85	110.24	107.10	106.13
3	18.40	0.00	103.31	?UNDEF	18.00	0.00	102.51	102.32	80.20	0.00	105.95	110.34	106.91	105.94
4	18.80	0.00	102.86	?UNDEF	18.10	0.00	102.27	102.46	80.00	0.00	108.83	109.96	106.73	105.60
5	27.80	0.00	102.83	?UNDEF	19.70	0.00	102.24	102.48	81.30	0.00	110.37	109.25	106.52	105.25
6	31.00	0.00	102.87	?UNDEF	25.00	0.00	102.26	102.57	94.50	0.00	110.11	108.82	106.20	105.06
7	38.60	0.00	102.78	?UNDEF	25.10	0.00	102.08	102.50	97.00	0.00	109.93	108.47	106.16	104.87
8	47.20	0.00	102.61	?UNDEF	40.30	0.00	101.74	102.84	120.70	0.00	107.30	108.10	106.03	104.79
9	60.90	0.00	102.74	?UNDEF	45.60	0.00	101.44	102.83	118.50	0.00	107.05	108.32	106.25	104.75
10	61.10	0.00	103.56	?UNDEF	62.10	0.00	103.30	103.40	116.70	0.00	107.54	108.18	106.66	104.87
11	61.80	0.00	102.46	?UNDEF	65.40	0.00	103.14	103.19	116.00	0.00	108.69	109.12	107.16	105.01
12	51.80	0.00	102.35	?UNDEF	61.70	0.00	102.30	103.76	98.10	0.00	110.48	108.85	107.36	105.28
13	45.00	0.00	103.23	?UNDEF	56.60	0.00	102.15	103.93	94.10	0.00	109.06	109.15	107.40	105.74
14	42.40	0.00	103.82	?UNDEF	47.60	0.00	101.56	104.18	92.70	0.00	107.64	109.74	107.56	106.02
15	42.00	0.00	103.43	?UNDEF	44.40	0.00	102.09	104.04	110.90	0.00	108.11	109.75	107.60	106.35
16	42.10	0.00	103.30	?UNDEF	40.40	0.00	101.85	103.91	116.00	0.00	111.70	109.69	107.65	106.55
17	36.70	0.00	103.35	?UNDEF	37.30	0.00	101.59	104.06	128.80	0.00	109.71	109.80	107.33	106.84
18	35.80	0.00	103.73	?UNDEF	37.00	0.00	101.47	103.48	126.80	0.00	111.38	109.12	107.18	106.92
19	36.30	0.00	103.68	?UNDEF	37.10	0.00	101.80	103.02	89.20	0.00	110.45	108.81	107.02	107.04
20	39.50	0.00	101.59	?UNDEF	37.40	0.00	101.39	102.67	102.80	0.00	110.59	108.60	106.70	106.95
21	49.50	0.00	101.38	?UNDEF	44.80	0.00	101.31	102.38	110.40	0.00	110.62	108.38	106.58	106.63
22	52.40	0.00	101.08	?UNDEF	53.90	0.00	102.02	102.14	107.00	0.00	109.99	107.89	106.36	106.27
23	49.10	0.00	101.98	?UNDEF	49.70	0.00	101.69	102.10	82.50	0.00	110.11	107.33	106.04	106.06
24	47.90	0.00	102.46	?UNDEF	48.80	0.00	101.77	101.89	57.00	0.00	109.99	106.71	105.87	106.06

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WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

20 APR 2001

	DWORSHAK			:	STREAMFLOW			:	LOWER GRANITE			:	LITTLE GOOSE				
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	:	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.60	0.00	105.50	:	101.60	101.40	100.72	:	18.10	0.00	105.16	101.80	:	15.40	0.00	101.61	100.88
2	1.50	0.00	105.57	:	101.48	101.27	100.50	:	16.20	0.00	105.04	101.58	:	16.80	0.00	102.98	100.90
3	1.50	0.00	105.71	:	101.56	101.04	100.27	:	16.00	0.00	105.13	101.73	:	14.90	0.00	103.28	100.81
4	1.50	0.00	105.78	:	101.44	100.96	100.05	:	33.00	0.00	105.31	102.45	:	20.70	0.00	101.80	100.82
5	1.50	0.00	105.68	:	101.31	100.81	099.81	:	35.20	0.00	105.33	102.64	:	31.10	0.00	102.55	100.92
6	1.50	0.00	105.39	:	101.15	100.60	099.54	:	38.90	0.00	104.91	102.92	:	29.00	0.00	102.66	100.88
7	1.50	0.00	105.23	:	101.19	100.45	099.48	:	44.70	0.00	104.60	103.05	:	33.90	0.00	102.36	100.85
8	1.60	0.00	105.52	:	101.35	100.66	099.90	:	44.20	0.00	104.73	103.01	:	39.40	0.00	102.66	100.85
9	1.50	0.00	106.05	:	101.64	101.00	100.50	:	44.30	0.00	104.78	103.01	:	42.60	0.00	102.39	101.03
10	1.50	0.00	106.55	:	102.11	101.40	101.46	:	44.00	0.00	104.58	103.16	:	45.70	0.00	102.06	101.03
11	1.50	0.00	107.13	:	102.64	101.88	102.56	:	40.40	0.00	104.49	103.17	:	45.90	0.00	102.18	101.16
12	1.60	0.00	107.53	:	103.38	102.20	103.45	:	38.20	0.00	104.25	103.19	:	45.80	0.00	101.94	101.13
13	1.50	0.00	107.70	:	103.52	102.53	103.74	:	38.00	0.00	104.38	103.06	:	47.10	0.00	102.35	101.16
14	1.50	0.00	107.58	:	103.75	102.63	103.53	:	28.30	0.00	104.23	102.92	:	39.50	0.00	102.36	101.30
15	1.50	0.00	107.40	:	103.84	102.66	103.34	:	27.60	0.00	104.27	102.75	:	36.50	0.00	102.22	101.43
16	1.50	0.00	107.67	:	103.67	102.76	103.19	:	27.60	0.00	104.08	102.49	:	31.70	0.00	101.65	101.42
17	1.60	0.00	107.90	:	103.16	102.84	103.39	:	27.90	0.00	104.00	102.63	:	29.10	0.00	101.79	101.42
18	1.50	0.00	107.69	:	102.84	102.64	103.32	:	39.10	0.00	104.44	103.00	:	35.00	0.00	102.76	101.25
19	1.50	0.00	107.90	:	102.36	102.26	102.73	:	40.00	0.00	104.28	102.95	:	35.30	0.00	103.70	101.24
20	1.50	0.00	106.79	:	101.87	101.86	102.12	:	39.80	0.00	104.10	102.88	:	35.50	0.00	104.03	101.14
21	1.50	0.00	106.41	:	101.48	101.56	101.44	:	40.40	0.00	104.11	103.44	:	42.90	0.00	103.54	101.08
22	1.60	0.00	106.06	:	101.32	101.30	101.00	:	40.30	0.00	104.34	103.12	:	47.10	0.00	101.84	101.14
23	1.50	0.00	105.93	:	101.13	101.17	100.69	:	27.90	0.00	104.01	102.67	:	27.70	0.00	103.94	100.95
24	1.60	0.00	105.73	:	100.94	101.09	100.38	:	17.70	0.00	103.83	102.08	:	20.10	0.00	103.74	100.89
:																	
	LOWER MONUMENTAL			:	ICE HARBOR			:	MCNARY			:	PASCO				
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT. TAILW.	:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT. TAILW.	:	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB %SAT. TAILW.	:	GAS % SAT			
1	14.10	0.00	104.06 101.26	:	18.20	0.00	103.07 102.76	:	78.50	0.00	109.99 112.54	106.84	:	106.95			
2	14.10	0.00	104.03 101.13	:	18.20	0.00	103.20 102.66	:	62.30	0.00	109.37 113.06	106.90	:	106.66			
3	14.20	0.00	103.98 101.29	:	18.10	0.00	103.00 102.59	:	77.50	0.00	109.11 113.12	106.82	:	106.57			
4	19.80	0.00	103.98 101.54	:	18.20	0.00	102.71 102.59	:	83.70	0.00	108.46 112.47	106.67	:	106.35			
5	29.10	0.00	104.03 101.91	:	18.20	0.00	102.48 102.59	:	90.60	0.00	109.80 111.26	106.76	:	106.20			
6	28.70	0.00	104.03 ?UNDEF	:	18.10	0.00	102.43 102.56	:	96.20	0.00	112.92 110.44	106.76	:	106.02			
7	28.60	0.00	103.82 ?UNDEF	:	18.70	0.00	102.43 102.61	:	112.80	0.00	109.07 110.29	107.41	:	105.86			
8	33.30	0.00	103.83 ?UNDEF	:	24.90	0.00	102.43 102.98	:	116.30	0.00	106.94 110.26	107.24	:	105.88			
9	41.60	0.00	103.31 ?UNDEF	:	25.20	0.00	102.44 103.45	:	115.40	0.00	106.77 110.01	107.28	:	105.92			
10	47.30	0.00	103.02 ?UNDEF	:	33.00	0.00	102.56 104.22	:	114.20	0.00	106.37 109.86	107.40	:	106.00			
11	49.40	0.00	102.93 ?UNDEF	:	43.70	0.00	102.41 104.24	:	114.30	0.00	108.80 109.97	107.36	:	106.28			
12	47.40	0.00	103.34 ?UNDEF	:	43.70	0.00	103.88 104.24	:	113.90	0.00	110.07 109.76	107.49	:	106.57			
13	48.00	0.00	104.30 ?UNDEF	:	47.20	0.00	104.80 104.33	:	114.00	0.00	110.28 109.73	107.53	:	106.78			
14	47.30	0.00	103.34 ?UNDEF	:	46.00	0.00	104.29 104.89	:	114.70	0.00	111.08 110.28	107.82	:	107.12			
15	47.00	0.00	103.19 ?UNDEF	:	48.50	0.00	103.79 104.53	:	110.60	0.00	111.69 112.45	107.97	:	107.58			
16	42.00	0.00	103.62 ?UNDEF	:	46.10	0.00	104.35 104.53	:	109.00	0.00	108.34 112.50	108.18	:	107.87			
17	35.80	0.00	103.61 ?UNDEF	:	42.00	0.00	103.09 104.50	:	100.50	0.00	107.55 112.73	108.29	:	107.96			
18	36.70	0.00	103.69 ?UNDEF	:	41.80	0.00	102.67 104.06	:	99.80	0.00	107.09 112.32	108.24	:	108.03			
19	35.70	0.00	105.61 ?UNDEF	:	41.80	0.00	102.92 103.84	:	113.30	0.00	107.18 112.29	107.94	:	108.00			
20	35.30	0.00	103.67 ?UNDEF	:	41.70	0.00	106.32 103.41	:	115.40	0.00	112.32 111.96	107.56	:	107.62			
21	41.20	0.00	103.03 ?UNDEF	:	41.80	0.00	105.08 103.20	:	113.80	0.00	111.19 111.65	107.44	:	107.51			
22	44.60	0.00	104.79 ?UNDEF	:	43.60	0.00	104.49 103.15	:	128.40	0.00	108.51 111.72	107.26	:	107.30			
23	28.80	0.00	104.33 ?UNDEF	:	30.80	0.00	104.33 102.97	:	100.10	0.00	108.59 111.42	107.19	:	106.95			
24	18.90	0.00	104.27 ?UNDEF	:	19.20	0.00	103.05 102.87	:	78.40	0.00	108.39 110.99	107.06	:	106.95			

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WALLA WALLA DISTRICT HYDRO PROJECTS
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	DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR :	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	
1 :	1.50	0.00	105.22	101.20	101.43	100.04	27.50	0.00	102.02	100.98	21.90	0.00	101.43	100.52	
2 :	1.60	0.00	105.02	101.21	101.36	099.93	19.20	0.00	101.84	100.65	15.60	0.00	101.47	100.54	
3 :	1.50	0.00	104.88	101.03	101.20	099.78	17.50	0.00	101.83	100.67	20.20	0.00	101.47	100.58	
4 :	1.50	0.00	104.85	101.05	101.05	099.76	18.00	0.00	101.47	100.44	18.70	0.00	101.44	100.50	
5 :	1.50	0.00	104.74	101.03	100.75	099.62	18.10	0.00	101.60	100.57	23.30	0.00	101.42	100.47	
6 :	1.60	0.00	104.64	100.94	100.57	099.45	30.20	0.00	101.72	100.96	19.80	0.00	101.40	100.46	
7 :	1.50	0.00	104.49	100.95	100.49	099.53	34.90	0.00	101.56	101.04	35.30	0.00	101.23	100.40	
8 :	1.50	0.00	104.42	100.99	100.49	099.62	35.10	0.00	101.73	100.98	35.90	0.00	101.47	100.34	
9 :	1.50	0.00	104.71	101.41	100.72	100.30	35.00	0.00	101.88	100.96	36.10	0.00	101.71	100.34	
10 :	1.50	0.00	105.11	101.83	101.14	101.47	35.20	0.00	101.88	101.22	37.60	0.00	101.68	100.34	
11 :	1.60	0.00	105.39	102.65	101.96	102.60	35.30	0.00	102.28	101.21	38.40	0.00	102.64	100.48	
12 :	1.50	0.00	105.97	103.37	102.86	103.87	35.00	0.00	102.46	101.25	37.80	0.00	101.58	100.63	
13 :	1.50	0.00	106.10	103.95	103.21	104.32	35.70	0.00	103.18	101.31	37.30	0.00	101.59	100.67	
14 :	1.50	0.00	106.18	104.88	103.57	104.12	35.00	0.00	104.19	101.55	42.60	0.00	101.48	100.90	
15 :	1.50	0.00	106.52	105.18	103.55	104.15	35.10	0.00	103.22	101.65	39.60	0.00	101.29	101.00	
16 :	1.60	0.00	106.96	105.26	103.52	104.62	35.10	0.00	103.42	101.72	39.70	0.00	101.51	101.06	
17 :	1.50	0.00	107.61	104.75	103.62	105.08	35.10	0.00	103.49	101.76	42.90	0.00	101.69	101.13	
18 :	1.50	0.00	107.67	104.02	103.66	104.98	35.70	0.00	103.23	101.66	40.30	0.00	101.77	101.16	
19 :	1.50	0.00	107.61	103.53	103.50	104.19	35.20	0.00	105.43	101.53	36.60	0.00	101.55	101.06	
20 :	1.60	0.00	106.19	102.85	103.13	103.13	39.90	0.00	105.05	101.68	36.30	0.00	101.85	101.09	
21 :	1.50	0.00	105.31	102.33	102.47	102.33	34.20	0.00	105.56	101.77	36.30	0.00	101.72	100.88	
22 :	1.50	0.00	105.13	102.07	102.06	101.70	32.10	0.00	105.58	102.08	32.20	0.00	102.03	100.94	
23 :	1.50	0.00	105.32	101.97	101.78	101.33	28.20	0.00	105.50	101.87	28.90	0.00	102.09	100.84	
24 :	1.50	0.00	105.43	101.66	101.59	100.92	16.90	0.00	105.23	101.49	15.70	0.00	101.84	100.86	
	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR :	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT	
1 :	21.50	0.00	101.88	100.44	17.80	0.00	102.75	102.35	63.90	0.00	106.23	109.27	106.40	106.12	
2 :	14.10	0.00	101.79	100.43	10.30	0.00	102.47	102.37	57.30	0.00	107.03	109.14	106.15	106.04	
3 :	17.20	0.00	102.18	100.56	10.00	0.00	102.22	102.07	65.50	0.00	107.12	108.98	105.85	105.72	
4 :	15.40	0.00	102.28	100.79	10.00	0.00	101.91	101.93	67.70	0.00	107.20	108.79	105.78	105.53	
5 :	14.30	0.00	102.24	100.63	11.50	0.00	101.76	101.78	69.40	0.00	107.43	108.62	105.89	105.24	
6 :	14.90	0.00	102.08	100.41	10.20	0.00	101.70	101.71	102.50	0.00	106.16	108.42	106.09	105.06	
7 :	26.00	0.00	102.13	100.67	11.30	0.00	101.51	101.69	118.70	0.00	107.47	108.28	106.19	104.87	
8 :	31.50	0.00	102.24	101.16	26.20	0.00	101.60	102.46	121.30	0.00	105.31	107.96	106.14	104.70	
9 :	41.10	0.00	102.23	101.21	42.60	0.00	101.85	103.16	120.60	0.00	105.29	107.92	106.14	104.64	
10 :	42.40	0.00	102.11	101.58	41.70	0.00	102.66	103.83	110.80	0.00	105.69	107.81	106.00	104.82	
11 :	42.40	0.00	101.70	102.20	41.70	0.00	102.81	103.62	110.40	0.00	107.13	108.08	106.15	105.07	
12 :	42.70	0.00	101.61	102.62	41.70	0.00	102.17	103.81	109.50	0.00	107.41	108.24	106.30	105.35	
13 :	44.80	0.00	101.76	103.27	41.80	0.00	101.84	103.87	108.60	0.00	107.70	108.40	106.58	105.74	
14 :	44.00	0.00	102.11	102.98	42.10	0.00	101.67	104.21	109.20	0.00	108.59	108.68	106.80	106.20	
15 :	42.50	0.00	102.07	103.26	49.40	0.00	101.63	104.06	107.90	0.00	109.27	109.32	107.02	106.60	
16 :	42.30	0.00	102.56	102.97	50.60	0.00	102.23	104.16	108.50	0.00	110.00	112.12	107.16	106.81	
17 :	42.10	0.00	102.61	102.83	49.10	0.00	102.33	104.13	110.20	0.00	109.68	114.35	107.24	106.99	
18 :	42.30	0.00	103.22	102.77	50.80	0.00	101.81	103.83	109.90	0.00	107.33	112.91	107.12	107.20	
19 :	41.80	0.00	104.35	102.36	49.40	0.00	101.74	103.61	118.00	0.00	109.81	111.50	107.19	107.40	
20 :	41.70	0.00	102.74	102.01	49.40	0.00	102.94	103.45	117.90	0.00	110.56	109.49	107.06	107.35	
21 :	42.50	0.00	102.68	101.94	49.40	0.00	102.66	103.20	121.00	0.00	109.09	108.54	106.90	107.22	
22 :	34.90	0.00	104.23	101.78	48.70	0.00	102.82	103.08	104.90	0.00	111.23	108.31	106.65	107.26	
23 :	32.00	0.00	103.30	101.76	33.50	0.00	103.32	103.04	96.60	0.00	107.82	109.68	106.60	107.17	
24 :	15.80	0.00	103.01	101.57	19.60	0.00	102.92	102.87	79.20	0.00	111.74	111.89	106.60	107.17	

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	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR :	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1 :	1.50	0.00	105.73	101.69	101.79	101.19	18.70	0.00	100.82	099.38	16.90	0.00	101.77	100.20
2 :	1.60	0.00	105.82	101.65	101.61	100.77	17.90	0.00	100.88	099.42	15.10	0.00	100.95	100.01
3 :	1.50	0.00	105.94	101.69	101.64	100.53	27.80	0.00	101.56	099.70	15.20	0.00	101.65	100.04
4 :	1.50	0.00	105.96	101.68	101.45	100.43	28.30	0.00	101.56	099.83	15.70	0.00	101.34	100.03
5 :	1.50	0.00	105.82	101.57	101.38	100.26	35.30	0.00	102.07	099.95	26.80	0.00	100.66	100.00
6 :	1.50	0.00	105.88	101.58	101.22	100.13	35.80	0.00	101.97	100.08	30.20	0.00	100.68	099.99
7 :	1.60	0.00	106.00	101.60	101.30	100.03	37.10	0.00	101.85	100.24	39.40	0.00	100.64	099.99
8 :	1.50	0.00	106.32	101.71	101.45	100.27	37.40	0.00	101.54	100.34	41.70	0.00	100.47	099.93
9 :	1.50	0.00	106.81	101.87	101.84	100.59	36.90	0.00	101.98	100.21	43.00	0.00	100.47	099.91
10 :	1.50	0.00	107.14	102.03	102.08	101.13	33.70	0.00	102.49	100.20	43.30	0.00	100.78	099.93
11 :	1.50	0.00	107.75	102.49	102.54	101.59	33.90	0.00	102.37	100.23	50.90	0.00	100.67	100.00
12 :	1.60	0.00	107.88	102.64	102.83	101.65	33.50	0.00	101.63	100.17	37.70	0.00	100.86	100.01
13 :	1.50	0.00	107.79	102.82	102.99	101.65	33.40	0.00	101.47	100.03	36.50	0.00	101.05	100.09
14 :	1.50	0.00	107.71	102.77	102.93	101.93	33.40	0.00	101.31	100.21	39.40	0.00	100.97	100.09
15 :	1.50	0.00	107.55	102.82	102.64	102.07	33.60	0.00	101.32	100.15	36.30	0.00	101.13	100.21
16 :	1.60	0.00	107.03	102.73	102.63	102.07	33.60	0.00	101.38	100.31	36.30	0.00	100.90	100.31
17 :	1.50	0.00	106.76	102.43	102.57	101.84	33.60	0.00	101.37	100.70	36.30	0.00	101.00	100.38
18 :	1.50	0.00	106.61	102.17	102.19	101.59	35.30	0.00	101.78	100.74	36.60	0.00	101.28	100.39
19 :	1.50	0.00	106.76	102.06	102.12	101.58	38.00	0.00	101.73	100.77	39.20	0.00	101.19	100.46
20 :	1.50	0.00	106.09	101.87	101.89	101.14	44.50	0.00	101.85	100.75	49.60	0.00	101.35	100.46
21 :	1.60	0.00	105.82	101.59	101.73	100.92	42.80	0.00	102.41	101.46	50.20	0.00	101.35	100.46
22 :	1.50	0.00	105.45	101.51	101.70	100.54	41.40	0.00	102.42	101.93	48.80	0.00	101.25	100.51
23 :	1.50	0.00	105.36	101.37	101.61	100.42	28.30	0.00	102.17	101.40	32.30	0.00	101.40	100.51
24 :	1.50	0.00	105.33	101.28	101.43	100.18	27.40	0.00	102.04	101.11	24.20	0.00	101.55	100.52
	LOWER MONUMENTAL			ICE HARBOR			MCNARY			PASCO				
HOUR :	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1 :	15.50	0.00	101.14	100.13	13.20	0.00	100.63	100.89	61.10	0.00	108.60	108.31	104.59	105.97
2 :	15.20	0.00	100.88	100.07	12.40	0.00	100.55	100.79	65.80	0.00	109.62	107.47	104.92	105.81
3 :	14.00	0.00	100.84	100.00	11.60	0.00	100.24	100.61	80.40	0.00	108.62	106.90	104.84	105.65
4 :	13.90	0.00	100.68	099.95	10.00	0.00	100.03	100.55	85.20	0.00	108.46	106.18	104.67	105.47
5 :	14.20	0.00	101.18	099.91	10.20	0.00	100.01	100.38	102.20	0.00	108.71	105.77	104.29	105.33
6 :	19.80	0.00	101.16	100.03	13.10	0.00	100.16	100.49	116.10	0.00	108.46	105.63	104.14	105.19
7 :	29.90	0.00	101.30	100.16	20.30	0.00	100.22	100.91	119.00	0.00	108.06	105.51	104.23	105.06
8 :	41.60	0.00	101.51	100.29	35.80	0.00	100.49	101.59	125.30	0.00	108.41	105.59	104.21	105.02
9 :	48.30	0.00	101.43	100.45	46.90	0.00	101.19	101.74	133.30	0.00	108.28	105.51	104.38	105.03
10 :	47.40	0.00	100.85	100.60	47.80	0.00	101.73	101.78	134.10	0.00	108.22	105.50	104.54	105.07
11 :	47.40	0.00	101.36	100.75	47.80	0.00	101.93	101.98	134.40	0.00	108.10	105.67	104.74	105.28
12 :	47.60	0.00	101.24	100.86	47.90	0.00	101.37	101.98	131.10	0.00	107.91	106.26	105.04	105.40
13 :	47.60	0.00	101.16	100.92	48.80	0.00	100.69	102.07	129.90	0.00	106.98	107.38	105.35	105.73
14 :	47.70	0.00	101.08	101.01	48.10	0.00	100.32	102.30	121.30	0.00	104.80	108.56	105.57	105.91
15 :	48.30	0.00	102.13	101.21	49.80	0.00	101.34	102.23	119.40	0.00	104.50	109.01	105.79	106.28
16 :	42.30	0.00	102.35	101.43	48.20	0.00	102.33	102.27	120.40	0.00	104.84	109.13	105.98	106.49
17 :	41.50	0.00	102.15	101.46	48.40	0.00	103.35	102.73	120.70	0.00	104.95	109.35	106.06	106.76
18 :	41.60	0.00	102.15	101.44	48.50	0.00	103.01	102.70	120.00	0.00	105.40	109.54	106.14	106.94
19 :	44.30	0.00	102.20	101.15	49.40	0.00	102.43	102.42	121.30	0.00	105.43	109.61	106.21	107.13
20 :	48.00	0.00	102.35	100.85	53.60	0.00	102.32	102.42	144.50	0.00	105.41	109.78	106.23	107.14
21 :	53.30	0.00	102.50	100.73	58.00	0.00	101.91	102.46	149.30	0.00	105.53	109.78	106.39	106.90
22 :	52.90	0.00	102.51	100.69	56.40	0.00	102.62	102.44	146.60	0.00	105.66	109.79	106.37	106.77
23 :	42.70	0.00	102.69	100.75	43.50	0.00	102.38	102.47	94.60	0.00	105.56	109.54	106.43	106.52
24 :	31.50	0.00	102.55	100.59	29.50	0.00	102.62	102.35	79.80	0.00	106.26	109.39	106.42	106.52

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WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

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	DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR :	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	
1 :	1.50	0.00	106.97	102.36	102.43	102.08	16.70	0.00	102.89	101.55	14.20	0.00	103.34	101.45	
2 :	1.60	0.00	106.76	102.02	102.06	101.49	17.20	0.00	102.70	100.96	17.30	0.00	102.91	101.10	
3 :	1.50	0.00	106.46	101.88	101.83	100.87	17.50	0.00	102.49	100.20	16.80	0.00	102.52	100.71	
4 :	1.50	0.00	106.06	101.60	101.39	100.38	27.90	0.00	102.10	100.26	15.50	0.00	102.10	100.55	
5 :	1.50	0.00	105.69	101.40	101.10	099.95	30.50	0.00	101.91	100.03	13.60	0.00	101.84	100.43	
6 :	1.50	0.00	105.48	101.08	100.90	099.68	27.00	0.00	101.63	099.79	20.20	0.00	101.53	100.15	
7 :	1.50	0.00	105.43	100.92	100.70	099.54	27.10	0.00	101.56	099.69	26.70	0.00	100.83	100.12	
8 :	1.60	0.00	105.54	101.07	100.58	099.74	35.50	0.00	101.34	099.76	29.50	0.00	100.19	100.00	
9 :	1.50	0.00	106.04	101.28	100.78	100.26	41.20	0.00	100.82	099.99	40.30	0.00	100.27	099.95	
10 :	1.50	0.00	106.40	101.51	101.08	101.32	42.40	0.00	100.84	100.05	40.70	0.00	100.23	099.96	
11 :	1.50	0.00	106.52	102.04	101.40	102.62	42.30	0.00	100.97	099.91	41.70	0.00	100.49	099.93	
12 :	1.50	0.00	106.57	102.63	102.00	103.57	40.00	0.00	101.14	100.09	41.70	0.00	100.28	099.99	
13 :	1.60	0.00	107.03	103.06	102.55	104.97	30.30	0.00	101.05	099.85	41.80	0.00	100.35	100.05	
14 :	1.50	0.00	107.51	103.51	103.21	105.64	29.70	0.00	101.18	099.73	41.50	0.00	100.21	100.09	
15 :	1.50	0.00	107.84	104.00	103.61	106.17	29.80	0.00	101.26	099.83	44.30	0.00	100.23	100.03	
16 :	1.50	0.00	107.93	104.34	104.09	106.37	29.60	0.00	101.72	099.77	32.70	0.00	100.29	100.05	
17 :	1.50	0.00	107.85	104.35	104.51	106.40	31.80	0.00	101.77	100.09	30.40	0.00	100.28	100.07	
18 :	1.60	0.00	107.64	103.76	104.39	105.76	29.60	0.00	101.77	100.08	30.90	0.00	100.75	100.15	
19 :	1.50	0.00	107.85	103.45	103.97	104.98	29.60	0.00	101.72	099.99	30.10	0.00	101.23	100.19	
20 :	1.50	0.00	106.66	102.89	103.54	103.90	29.50	0.00	101.59	099.85	31.50	0.00	101.68	100.19	
21 :	1.50	0.00	106.22	102.53	102.99	103.15	27.50	0.00	101.36	100.05	31.60	0.00	101.11	100.17	
22 :	1.50	0.00	105.86	102.11	102.45	102.37	27.70	0.00	101.29	099.96	30.10	0.00	100.94	100.12	
23 :	1.60	0.00	105.66	101.95	102.20	101.91	27.70	0.00	101.19	100.03	31.00	0.00	100.82	100.17	
24 :	1.50	0.00	105.71	101.84	101.97	101.52	27.00	0.00	100.89	099.61	20.80	0.00	101.57	100.24	
	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR :	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT	
1 :	14.10	0.00	104.96	101.44	13.00	0.00	101.74	101.85	61.70	0.00	103.67	105.74	104.78	?UNDEF	
2 :	15.30	0.00	104.50	101.08	10.10	0.00	100.97	101.02	68.80	0.00	103.41	105.45	104.28	?UNDEF	
3 :	13.80	0.00	103.30	101.07	10.00	0.00	100.46	100.82	63.30	0.00	103.36	105.14	103.82	?UNDEF	
4 :	14.00	0.00	102.08	100.88	10.10	0.00	099.91	100.61	88.90	0.00	103.22	104.86	103.58	?UNDEF	
5 :	15.50	0.00	101.58	100.69	11.50	0.00	099.54	100.33	92.70	0.00	103.04	104.50	103.53	?UNDEF	
6 :	15.40	0.00	100.88	100.29	10.00	0.00	099.29	100.08	117.80	0.00	102.92	104.34	103.24	*****	
7 :	14.30	0.00	100.04	100.31	10.50	0.00	098.89	100.15	149.00	0.00	102.75	104.06	103.25	*****	
8 :	26.80	0.00	099.68	100.49	21.60	0.00	099.09	100.45	140.40	0.00	102.69	103.99	103.15	*****	
9 :	34.80	0.00	100.99	100.37	31.40	0.00	098.99	101.30	138.60	0.00	102.62	103.98	103.36	*****	
10 :	39.50	0.00	101.07	100.46	40.60	0.00	098.95	102.07	139.20	0.00	102.40	103.95	103.72	*****	
11 :	42.50	0.00	100.64	100.45	42.20	0.00	099.24	101.76	138.60	0.00	102.76	103.92	103.74	104.39	
12 :	40.90	0.00	100.43	101.22	40.80	0.00	099.43	101.95	139.70	0.00	102.70	104.12	103.94	104.82	
13 :	42.40	0.00	100.45	101.29	40.70	0.00	099.11	102.04	132.30	0.00	103.08	104.15	104.12	105.27	
14 :	40.70	0.00	100.67	101.36	42.30	0.00	099.05	102.21	129.70	0.00	106.05	104.06	104.46	105.91	
15 :	40.90	0.00	100.88	101.18	43.00	0.00	099.49	102.03	132.20	0.00	106.69	104.13	104.40	106.36	
16 :	40.90	0.00	100.93	101.16	40.40	0.00	099.67	102.10	130.10	0.00	105.84	104.20	104.37	106.70	
17 :	40.50	0.00	100.71	101.04	40.50	0.00	100.12	101.90	131.20	0.00	109.24	104.25	104.41	106.75	
18 :	40.50	0.00	101.26	100.95	40.50	0.00	100.26	101.77	135.60	0.00	110.06	104.66	104.30	106.78	
19 :	40.50	0.00	101.43	100.61	42.00	0.00	101.23	101.61	131.00	0.00	106.35	104.89	104.30	106.80	
20 :	41.70	0.00	101.43	100.98	40.50	0.00	101.57	101.55	113.60	0.00	104.72	104.80	104.16	106.88	
21 :	30.40	0.00	101.34	100.49	40.50	0.00	101.57	101.44	100.10	0.00	105.78	108.44	104.18	106.72	
22 :	29.40	0.00	101.60	100.21	41.10	0.00	101.07	101.44	87.60	0.00	108.44	108.99	104.27	106.47	
23 :	28.10	0.00	101.54	100.21	30.10	0.00	100.82	101.31	68.80	0.00	107.64	108.99	104.27	106.22	
24 :	22.70	0.00	101.36	100.07	19.70	0.00	100.81	101.15	69.60	0.00	106.06	108.68	104.54	106.22	

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WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

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	DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE				
HOUR :	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	:	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.50	0.00	104.93	:	101.46	101.62	101.17	:	17.20	0.00	102.98	098.81	:	13.20	0.00	104.08	099.97
2	1.60	0.00	105.08	:	101.17	101.40	100.75	:	17.10	0.00	102.93	098.96	:	12.90	0.00	103.97	100.08
3	1.50	0.00	105.08	:	101.17	101.30	100.35	:	17.20	0.00	102.46	098.87	:	13.20	0.00	103.61	100.11
4	1.50	0.00	105.04	:	101.03	101.12	100.13	:	17.40	0.00	102.35	099.25	:	13.20	0.00	103.11	100.11
5	1.50	0.00	105.04	:	100.93	100.88	099.87	:	18.00	0.00	102.19	099.41	:	13.20	0.00	102.83	100.08
6	1.50	0.00	104.87	:	100.89	100.77	099.72	:	18.70	0.00	101.76	099.79	:	15.50	0.00	102.42	100.11
7	1.60	0.00	104.89	:	100.86	100.70	099.66	:	29.50	0.00	102.31	100.04	:	18.00	0.00	102.40	100.23
8	1.50	0.00	105.14	:	101.13	100.85	100.20	:	30.70	0.00	102.30	100.20	:	33.10	0.00	102.43	100.20
9	1.50	0.00	105.59	:	101.59	101.13	101.32	:	31.00	0.00	102.06	100.27	:	34.20	0.00	102.22	100.41
10	1.50	0.00	106.26	:	102.32	101.72	102.64	:	33.60	0.00	102.32	100.47	:	35.90	0.00	101.79	100.47
11	1.50	0.00	106.63	:	103.11	102.72	103.93	:	30.70	0.00	101.97	000.00	:	36.20	0.00	102.42	100.64
12	1.60	0.00	107.08	:	103.64	103.76	105.09	:	29.90	0.00	102.05	100.62	:	36.80	0.00	101.77	100.82
13	1.50	0.00	107.65	:	104.47	104.29	106.46	:	29.80	0.00	102.34	100.74	:	38.00	0.00	102.69	100.98
14	1.50	0.00	107.93	:	105.33	104.91	107.57	:	29.70	0.00	103.00	100.96	:	37.90	0.00	102.44	101.22
15	1.50	0.00	108.20	:	105.91	105.32	108.40	:	27.60	0.00	103.70	100.89	:	30.60	0.00	103.63	101.36
16	1.50	0.00	108.64	:	106.10	105.82	108.58	:	26.20	0.00	103.88	100.88	:	29.10	0.00	103.47	101.36
17	1.60	0.00	108.62	:	105.97	105.87	108.13	:	27.50	0.00	103.86	101.11	:	27.50	0.00	103.58	101.44
18	1.50	0.00	108.15	:	105.41	105.57	107.51	:	25.00	0.00	103.99	100.88	:	27.30	0.00	104.34	101.58
19	1.50	0.00	108.62	:	104.91	105.00	106.56	:	25.00	0.00	103.63	100.68	:	30.40	0.00	104.52	101.47
20	1.50	0.00	107.06	:	104.26	104.31	105.42	:	28.60	0.00	103.11	100.72	:	28.00	0.00	104.56	101.55
21	1.50	0.00	106.97	:	103.68	103.88	104.46	:	27.80	0.00	103.56	100.72	:	31.60	0.00	104.73	101.42
22	1.60	0.00	106.97	:	103.17	103.36	103.70	:	27.20	0.00	103.63	101.07	:	36.10	0.00	104.29	101.47
23	1.50	0.00	107.03	:	102.73	102.97	103.14	:	18.70	0.00	103.06	101.47	:	25.80	0.00	104.03	101.60
24	1.50	0.00	106.92	:	102.53	102.71	102.61	:	14.10	0.00	102.71	101.63	:	15.10	0.00	103.76	101.62
	LOWER MONUMENTAL			:	ICE HARBOR			:	MCNARY			:	PASCO				
HOUR :	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	:	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	:	GAS % SAT
1	14.50	0.00	102.43	099.99	:	14.60	0.00	103.00	101.26	:	58.70	0.00	102.91	106.23	103.18	:	?UNDEF
2	13.90	0.00	102.61	100.01	:	12.10	0.00	102.72	101.00	:	59.70	0.00	102.66	105.74	103.46	:	?UNDEF
3	14.10	0.00	102.53	100.19	:	10.00	0.00	102.10	100.77	:	74.10	0.00	102.86	105.65	103.46	:	?UNDEF
4	15.30	0.00	102.55	100.32	:	10.00	0.00	101.72	100.63	:	74.80	0.00	103.09	105.50	103.56	:	?UNDEF
5	13.80	0.00	102.17	100.47	:	11.60	0.00	101.41	100.50	:	76.40	0.00	102.77	105.33	103.29	:	?UNDEF
6	13.90	0.00	102.14	100.44	:	12.70	0.00	101.40	100.90	:	89.40	0.00	102.62	105.14	103.11	:	?UNDEF
7	15.60	0.00	101.74	100.48	:	19.80	0.00	101.15	101.04	:	117.70	0.00	102.86	105.12	103.11	:	?UNDEF
8	21.30	0.00	101.70	100.76	:	20.80	0.00	101.12	101.52	:	118.60	0.00	103.12	105.11	103.38	:	?UNDEF
9	33.40	0.00	101.87	101.34	:	33.00	0.00	101.02	102.16	:	115.40	0.00	104.09	104.74	103.94	:	?UNDEF
10	39.50	0.00	102.22	101.56	:	37.90	0.00	101.14	102.43	:	115.10	0.00	104.85	104.73	104.16	:	104.72
11	40.20	0.00	102.93	102.48	:	38.20	0.00	100.81	102.34	:	126.70	0.00	105.87	105.12	104.26	:	105.07
12	39.60	0.00	102.72	102.99	:	36.80	0.00	101.15	102.81	:	128.10	0.00	106.43	105.32	104.34	:	105.43
13	38.80	0.00	102.60	102.70	:	36.90	0.00	100.78	103.22	:	129.90	0.00	106.93	105.89	104.64	:	105.87
14	38.60	0.00	101.93	102.80	:	36.90	0.00	100.25	103.50	:	137.60	0.00	106.48	106.70	104.98	:	106.24
15	35.40	0.00	102.06	103.27	:	37.70	0.00	100.72	103.42	:	137.70	0.00	106.10	106.97	105.37	:	106.86
16	33.80	0.00	102.03	103.08	:	37.10	0.00	101.49	103.40	:	126.70	0.00	105.16	107.66	105.65	:	107.25
17	32.60	0.00	104.48	102.70	:	36.40	0.00	101.45	103.30	:	127.30	0.00	104.95	106.98	105.63	:	107.69
18	33.90	0.00	106.58	102.80	:	37.90	0.00	101.57	103.14	:	117.50	0.00	105.23	106.85	105.73	:	?UNDEF
19	32.40	0.00	107.21	102.45	:	36.50	0.00	101.52	102.89	:	117.20	0.00	104.93	107.09	105.70	:	?UNDEF
20	33.00	0.00	106.74	102.33	:	37.10	0.00	101.62	102.83	:	129.30	0.00	104.64	107.63	105.72	:	?UNDEF
21	33.90	0.00	105.96	102.15	:	37.10	0.00	101.86	102.69	:	116.20	0.00	104.72	106.89	105.38	:	?UNDEF
22	35.60	0.00	105.30	102.06	:	38.50	0.00	101.95	102.52	:	114.50	0.00	104.49	106.78	105.14	:	?UNDEF
23	32.20	0.00	105.13	101.99	:	35.40	0.00	102.02	102.56	:	100.70	0.00	104.42	106.59	105.07	:	?UNDEF
24	18.40	0.00	105.26	101.78	:	24.20	0.00	102.02	102.20	:	69.70	0.00	104.20	106.35	104.73	:	?UNDEF

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	DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR :	TOTAL DISCH. KCFS	SPIILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPIILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPIILL KCFS	GAS FB	%SAT. TAILW.		
1 :	1.40	0.00	106.89	101.56	101.80	101.27	17.40	0.00	101.93	098.36	13.90	0.00	100.76	099.39		
2 :	1.40	0.00	106.87	101.44	101.59	100.78	17.40	0.00	101.81	098.34	13.40	0.00	101.03	099.27		
3 :	1.40	0.00	106.90	101.13	101.50	100.36	17.40	0.00	101.81	098.26	13.20	0.00	100.78	099.28		
4 :	1.40	0.00	106.86	100.96	101.27	100.03	17.40	0.00	101.02	098.37	14.80	0.00	100.76	099.27		
5 :	1.50	0.00	106.94	100.98	101.08	099.87	28.20	0.00	101.10	098.38	14.80	0.00	100.60	099.20		
6 :	1.40	0.00	106.92	100.82	100.93	099.62	28.00	0.00	101.25	098.61	13.80	0.00	100.68	099.05		
7 :	1.40	0.00	106.74	100.73	100.88	099.56	29.90	0.00	100.35	098.54	19.70	0.00	100.78	099.02		
8 :	1.40	0.00	107.01	101.01	100.88	099.93	30.20	0.00	100.91	098.77	31.00	0.00	100.84	099.14		
9 :	1.40	0.00	107.40	101.38	101.17	100.74	30.20	0.00	100.76	098.93	31.70	0.00	101.18	099.22		
10 :	1.40	0.00	107.82	102.07	101.79	102.10	32.60	0.00	100.55	099.23	35.40	0.00	101.67	099.43		
11 :	1.50	0.00	108.44	102.96	102.60	103.49	32.30	0.00	100.40	099.63	35.70	0.00	102.06	099.53		
12 :	1.40	0.00	109.02	103.80	103.48	104.71	32.20	0.00	100.42	099.65	36.00	0.00	102.55	099.60		
13 :	1.50	0.00	109.37	104.61	104.08	105.97	32.20	0.00	101.01	099.72	36.60	0.00	103.02	099.79		
14 :	1.50	0.00	109.49	105.28	104.94	107.02	32.20	0.00	101.36	099.76	35.80	0.00	103.87	099.84		
15 :	1.50	0.00	108.73	105.71	105.40	107.59	32.00	0.00	102.99	099.71	35.60	0.00	104.31	099.89		
16 :	1.60	0.00	107.99	105.78	105.70	108.05	26.20	0.00	102.84	099.36	32.60	0.00	103.56	099.95		
17 :	1.50	0.00	107.63	105.53	105.61	107.97	25.30	0.00	102.16	099.12	27.90	0.00	104.11	099.97		
18 :	1.50	0.00	107.36	105.06	105.29	107.32	25.00	0.00	103.16	098.89	29.20	0.00	105.75	100.13		
19 :	1.50	0.00	107.63	104.37	104.70	106.28	25.20	0.00	104.65	098.77	26.60	0.00	103.10	100.17		
20 :	1.60	0.00	105.81	103.65	104.01	105.06	25.50	0.00	105.31	098.59	25.50	0.00	102.84	100.16		
21 :	1.50	0.00	105.23	102.95	103.34	103.98	30.90	0.00	103.91	099.24	24.80	0.00	105.88	100.07		
22 :	1.50	0.00	105.03	102.34	102.68	102.93	29.70	0.00	103.64	099.48	24.90	0.00	104.52	100.08		
23 :	1.50	0.00	105.03	102.02	102.20	102.27	20.80	0.00	103.25	098.94	28.10	0.00	104.35	100.01		
24 :	1.50	0.00	104.99	101.63	101.80	101.73	17.40	0.00	102.97	098.69	20.70	0.00	104.44	100.00		
	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR :	TOTAL DISCH KCFS	SPIILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPIILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPIILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT		
1 :	18.80	0.00	101.00	099.34	21.90	0.00	100.08	100.61	78.20	0.00	102.88	104.30	102.41	104.40		
2 :	20.20	0.00	100.87	099.62	11.80	0.00	099.79	100.32	61.30	0.00	102.84	104.00	102.25	104.28		
3 :	14.40	0.00	100.87	099.74	12.80	0.00	099.53	100.04	60.70	0.00	102.84	103.76	102.03	104.15		
4 :	14.20	0.00	100.88	099.43	11.30	0.00	099.41	100.04	60.90	0.00	102.80	103.60	102.11	103.98		
5 :	14.30	0.00	100.71	099.26	11.50	0.00	099.37	099.88	60.80	0.00	102.65	103.43	101.96	103.84		
6 :	14.50	0.00	100.69	099.23	11.60	0.00	099.33	099.74	75.90	0.00	102.66	103.31	102.08	103.71		
7 :	19.30	0.00	100.63	099.35	23.00	0.00	099.45	099.97	97.80	0.00	102.54	103.21	102.13	103.46		
8 :	27.50	0.00	100.60	099.87	24.60	0.00	099.28	100.79	104.50	0.00	102.53	103.04	102.08	103.42		
9 :	30.60	0.00	100.61	100.03	32.90	0.00	099.37	101.04	118.10	0.00	102.78	102.87	102.31	103.44		
10 :	36.50	0.00	101.14	100.19	34.30	0.00	099.25	101.90	116.40	0.00	104.34	102.92	102.59	103.55		
11 :	36.90	0.00	101.54	100.44	35.30	0.00	099.24	101.90	97.60	0.00	106.23	103.08	102.63	103.84		
12 :	38.60	0.00	101.89	101.93	34.00	0.00	099.57	101.98	87.40	0.00	106.79	103.24	103.07	104.14		
13 :	38.00	0.00	102.58	101.88	34.10	0.00	100.25	102.27	86.60	0.00	107.27	103.22	103.43	104.53		
14 :	38.40	0.00	104.29	102.71	34.10	0.00	100.21	102.59	77.60	0.00	106.65	104.16	103.60	104.87		
15 :	36.30	0.00	102.47	101.80	33.90	0.00	100.01	102.47	69.30	0.00	106.34	106.21	103.80	105.35		
16 :	32.90	0.00	101.68	102.08	33.10	0.00	099.83	102.51	67.40	0.00	106.07	108.17	103.88	105.58		
17 :	31.10	0.00	101.34	101.88	33.50	0.00	100.00	102.29	60.20	0.00	104.54	108.06	104.07	105.77		
18 :	32.40	0.00	101.36	101.42	35.50	0.00	100.32	102.09	62.00	0.00	103.76	107.60	104.03	105.94		
19 :	28.70	0.00	102.63	100.85	31.30	0.00	101.54	101.81	95.80	0.00	103.67	107.54	103.97	105.97		
20 :	27.60	0.00	103.82	100.55	30.70	0.00	103.13	101.40	98.70	0.00	104.48	107.73	103.84	105.81		
21 :	27.00	0.00	104.76	100.19	29.20	0.00	104.83	101.43	91.80	0.00	104.86	107.47	103.55	105.77		
22 :	26.90	0.00	104.57	100.31	29.20	0.00	104.04	101.40	91.60	0.00	104.65	107.23	103.59	?UNDEF		
23 :	26.90	0.00	103.82	100.45	29.10	0.00	102.60	101.41	58.50	0.00	103.78	106.99	103.48	?UNDEF		
24 :	26.40	0.00	103.14	100.29	27.10	0.00	102.85	101.41	59.10	0.00	103.21	106.49	103.04	?UNDEF		

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	DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	
1	1.40	0.00	105.99	101.01	100.84	100.08	15.80	0.00	097.99	097.42	15.30	0.00	099.71	099.04	
2	1.40	0.00	105.81	100.97	100.67	099.80	15.80	0.00	098.11	097.23	18.00	0.00	099.69	099.02	
3	1.40	0.00	105.69	100.83	100.53	099.60	17.00	0.00	098.09	097.11	14.70	0.00	099.69	098.88	
4	1.50	0.00	105.66	100.81	100.53	099.32	30.70	0.00	098.33	097.33	15.00	0.00	099.52	098.86	
5	1.40	0.00	105.93	100.62	100.50	099.29	31.20	0.00	098.47	097.41	16.80	0.00	099.64	098.83	
6	1.40	0.00	106.02	100.60	100.40	099.12	33.80	0.00	098.44	097.80	29.40	0.00	099.64	098.82	
7	1.40	0.00	105.97	100.55	100.36	098.94	39.60	0.00	098.53	097.87	35.70	0.00	099.60	098.77	
8	1.40	0.00	105.92	100.63	100.46	099.33	34.60	0.00	098.62	097.98	35.90	0.00	099.53	098.73	
9	1.50	0.00	106.22	101.06	100.74	100.24	33.70	0.00	098.61	098.23	37.30	0.00	099.61	098.71	
10	1.40	0.00	106.67	101.79	101.33	101.43	33.80	0.00	098.76	481.24	37.60	0.00	099.67	098.83	
11	1.40	0.00	107.59	102.58	102.09	102.85	34.30	0.00	098.96	098.52	37.20	0.00	099.65	098.99	
12	1.40	0.00	108.45	103.47	102.75	104.20	33.90	0.00	099.37	098.57	37.60	0.00	099.67	099.04	
13	1.40	0.00	108.89	104.18	103.21	105.18	33.90	0.00	099.53	098.61	35.90	0.00	099.71	099.20	
14	1.40	0.00	108.92	104.83	104.07	105.86	34.00	0.00	099.46	098.80	35.90	0.00	099.73	099.26	
15	1.40	0.00	108.69	105.26	104.06	106.87	34.10	0.00	099.34	098.89	34.30	0.00	099.63	099.30	
16	1.40	0.00	108.62	105.36	104.43	107.22	33.20	0.00	100.51	099.08	34.20	0.00	099.73	099.39	
17	1.40	0.00	108.43	105.15	104.12	107.00	29.50	0.00	100.28	099.00	31.90	0.00	100.29	099.41	
18	1.40	0.00	108.18	104.62	103.69	106.41	29.90	0.00	100.72	098.86	32.50	0.00	099.77	099.44	
19	1.40	0.00	108.43	103.96	103.42	105.33	29.40	0.00	100.86	098.78	31.80	0.00	101.50	099.48	
20	1.50	0.00	107.61	103.23	103.27	104.23	29.40	0.00	100.19	098.46	32.00	0.00	103.61	099.33	
21	1.40	0.00	107.14	102.82	102.75	103.23	29.60	0.00	101.47	098.70	36.00	0.00	101.99	099.45	
22	1.40	0.00	107.01	102.36	102.40	102.56	24.10	0.00	102.96	098.72	36.10	0.00	101.63	099.44	
23	1.40	0.00	106.86	102.01	102.12	102.08	17.40	0.00	102.36	098.34	35.50	0.00	101.40	099.48	
24	1.50	0.00	107.02	101.85	101.93	101.66	17.20	0.00	102.36	098.34	19.60	0.00	100.88	099.39	
	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT	
1	21.40	0.00	099.99	098.77	21.20	0.00	099.65	100.58	68.30	0.00	102.15	101.90	101.49	103.06	
2	21.20	0.00	099.83	098.83	21.10	0.00	099.49	100.39	62.90	0.00	102.03	101.84	101.47	102.89	
3	14.90	0.00	099.81	098.68	19.40	0.00	099.48	100.26	61.00	0.00	102.56	101.87	101.34	102.77	
4	14.30	0.00	099.64	098.51	18.20	0.00	099.44	100.25	67.50	0.00	102.27	101.71	101.30	102.61	
5	17.00	0.00	099.75	098.60	18.10	0.00	099.29	100.20	79.20	0.00	101.97	101.84	101.29	102.44	
6	21.50	0.00	099.59	098.71	18.20	0.00	099.29	100.22	91.20	0.00	101.82	101.80	101.28	102.25	
7	30.60	0.00	099.71	098.95	20.70	0.00	099.28	100.24	112.60	0.00	101.82	101.79	101.37	102.11	
8	34.00	0.00	099.68	099.16	25.70	0.00	099.25	100.43	114.40	0.00	101.93	101.76	101.50	102.08	
9	35.90	0.00	099.65	099.24	32.90	0.00	099.20	100.59	114.20	0.00	102.41	101.76	101.71	102.09	
10	36.00	0.00	099.55	099.50	34.00	0.00	099.21	101.30	112.30	0.00	103.08	101.90	101.88	102.22	
11	37.80	0.00	099.54	100.40	37.70	0.00	099.23	101.37	110.00	0.00	103.86	102.30	102.12	102.50	
12	38.20	0.00	099.56	100.62	39.90	0.00	099.13	101.42	107.10	0.00	104.85	102.87	102.48	102.95	
13	38.50	0.00	099.61	100.81	38.30	0.00	099.17	101.97	97.80	0.00	106.12	103.58	102.65	103.37	
14	38.50	0.00	099.69	100.78	38.20	0.00	099.23	102.43	95.90	0.00	107.25	103.68	102.87	103.85	
15	39.20	0.00	100.25	100.93	38.30	0.00	099.55	102.05	94.40	0.00	106.72	104.28	102.91	104.24	
16	38.00	0.00	099.75	100.82	38.20	0.00	099.37	101.87	92.70	0.00	107.82	105.02	103.05	104.62	
17	37.90	0.00	099.83	100.52	38.00	0.00	099.30	101.83	93.30	0.00	108.48	104.69	103.07	104.92	
18	39.40	0.00	099.85	100.48	38.20	0.00	099.18	101.44	96.40	0.00	106.95	104.31	102.92	105.11	
19	37.60	0.00	099.72	100.16	38.70	0.00	099.18	101.15	99.00	0.00	105.81	104.11	102.85	105.12	
20	37.40	0.00	100.43	099.64	39.70	0.00	099.34	100.92	99.50	0.00	105.03	104.79	102.64	105.14	
21	38.80	0.00	100.45	099.47	40.70	0.00	099.46	100.75	108.90	0.00	103.90	104.94	102.76	104.96	
22	38.70	0.00	100.44	099.43	39.40	0.00	099.63	100.70	107.90	0.00	103.39	104.73	102.96	104.93	
23	37.70	0.00	101.67	099.44	38.90	0.00	100.05	100.70	103.50	0.00	103.30	104.74	102.96	104.78	
24	20.10	0.00	101.27	099.34	22.90	0.00	100.34	100.59	97.20	0.00	102.84	104.61	102.70	104.78	

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	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR :	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1 :	1.40	0.00	104.50	100.53	100.84	100.28	19.60	0.00	098.65	097.82	17.50	0.00	099.95	099.28
2 :	1.40	0.00	104.06	100.46	100.78	100.11	16.70	0.00	098.46	097.86	17.80	0.00	099.88	099.24
3 :	1.40	0.00	103.87	100.43	100.66	099.91	16.80	0.00	098.54	097.56	17.40	0.00	099.84	099.20
4 :	1.40	0.00	104.26	100.46	100.50	099.83	27.80	0.00	098.55	097.81	17.70	0.00	099.96	099.07
5 :	1.40	0.00	104.68	100.28	100.34	099.77	27.50	0.00	098.65	098.07	25.10	0.00	099.95	099.03
6 :	1.40	0.00	104.61	100.30	100.27	099.64	29.30	0.00	098.72	098.01	28.60	0.00	100.08	099.00
7 :	1.40	0.00	104.45	100.24	100.30	099.56	38.10	0.00	098.85	098.11	34.30	0.00	100.00	098.94
8 :	1.40	0.00	104.57	100.48	100.47	099.77	35.50	0.00	098.81	098.07	38.30	0.00	099.87	098.96
9 :	1.50	0.00	104.70	100.86	100.78	100.86	35.60	0.00	098.66	098.05	35.10	0.00	099.80	098.91
10 :	1.40	0.00	105.09	101.40	101.19	101.82	35.00	0.00	098.62	098.23	35.10	0.00	099.79	099.02
11 :	1.40	0.00	107.12	102.19	101.47	102.72	35.10	0.00	098.78	098.30	34.70	0.00	099.77	099.04
12 :	1.40	0.00	107.54	103.03	102.23	103.74	35.90	0.00	098.81	098.45	38.40	0.00	099.76	099.16
13 :	1.40	0.00	107.97	103.62	102.81	104.76	34.10	0.00	098.82	098.45	33.10	0.00	099.71	099.18
14 :	1.50	0.00	108.22	104.33	103.07	104.82	30.10	0.00	098.80	098.32	31.90	0.00	099.85	099.22
15 :	1.40	0.00	108.29	104.50	103.34	104.82	30.30	0.00	098.74	098.36	34.20	0.00	099.73	099.24
16 :	1.40	0.00	108.13	104.53	103.29	104.70	29.80	0.00	099.02	098.53	34.00	0.00	099.92	099.28
17 :	1.40	0.00	107.89	104.26	103.29	104.28	29.70	0.00	098.87	098.34	34.50	0.00	099.99	099.47
18 :	1.40	0.00	107.75	103.84	102.99	103.61	29.70	0.00	098.74	098.22	35.40	0.00	099.85	099.47
19 :	1.40	0.00	107.89	103.25	102.60	103.09	30.00	0.00	098.71	098.09	36.70	0.00	099.87	099.49
20 :	1.40	0.00	107.44	102.52	102.34	102.51	31.80	0.00	098.73	098.05	36.10	0.00	100.01	099.33
21 :	1.40	0.00	106.79	102.05	101.90	101.88	30.90	0.00	098.50	098.45	36.40	0.00	099.92	099.31
22 :	1.40	0.00	106.50	101.60	101.63	101.34	29.90	0.00	098.47	098.28	36.10	0.00	099.88	099.25
23 :	1.50	0.00	106.41	101.36	101.34	100.91	17.20	0.00	098.04	097.48	25.20	0.00	099.83	099.22
24 :	1.40	0.00	106.27	101.17	101.00	100.74	15.90	0.00	098.04	097.30	24.40	0.00	099.69	099.07
	LOWER MONUMENTAL			ICE HARBOR			MCNARY			PASCO				
HOUR :	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1 :	14.00	0.00	100.04	099.15	12.70	0.00	100.32	100.88	80.30	0.00	102.20	102.62	101.60	102.17
2 :	13.50	0.00	100.17	099.09	14.20	0.00	100.12	100.83	78.50	0.00	102.17	102.54	101.45	102.02
3 :	13.50	0.00	100.00	098.79	12.70	0.00	100.25	100.78	79.60	0.00	102.13	102.51	101.56	101.88
4 :	13.80	0.00	100.11	098.86	12.10	0.00	100.25	100.65	81.30	0.00	102.14	102.51	101.69	101.72
5 :	16.70	0.00	100.11	098.89	13.50	0.00	100.20	100.88	96.70	0.00	101.98	102.38	101.67	101.54
6 :	16.80	0.00	099.93	099.09	13.20	0.00	100.08	100.97	119.50	0.00	101.82	102.34	101.65	101.37
7 :	28.10	0.00	100.01	099.46	20.10	0.00	100.03	100.96	133.70	0.00	101.74	102.27	101.32	101.33
8 :	33.30	0.00	099.85	099.51	24.70	0.00	099.89	101.08	137.70	0.00	101.72	102.14	101.31	101.27
9 :	37.00	0.00	099.95	099.63	32.80	0.00	099.74	101.25	137.60	0.00	101.73	102.15	101.44	101.40
10 :	37.90	0.00	099.83	099.85	36.70	0.00	099.71	101.57	137.60	0.00	101.76	102.12	101.44	101.66
11 :	37.20	0.00	099.79	100.05	38.30	0.00	099.82	101.59	137.90	0.00	101.86	102.11	101.83	101.93
12 :	39.50	0.00	099.91	100.84	40.40	0.00	099.83	101.58	128.70	0.00	101.89	102.11	102.09	102.32
13 :	41.20	0.00	099.84	100.90	40.40	0.00	099.87	101.65	127.00	0.00	102.30	102.19	102.00	102.77
14 :	39.60	0.00	099.81	100.66	40.30	0.00	099.91	102.09	125.90	0.00	103.13	102.23	102.16	103.19
15 :	39.60	0.00	100.01	100.58	40.30	0.00	100.25	101.74	125.60	0.00	103.79	102.26	102.21	103.66
16 :	39.50	0.00	100.03	100.42	40.20	0.00	100.53	101.74	124.50	0.00	104.13	102.31	102.25	103.92
17 :	40.60	0.00	100.21	100.15	41.00	0.00	100.76	101.45	124.20	0.00	104.13	102.26	102.25	104.11
18 :	41.60	0.00	100.31	100.09	40.50	0.00	100.39	101.34	124.10	0.00	103.98	102.33	102.12	104.20
19 :	42.50	0.00	100.20	099.77	40.50	0.00	100.00	101.32	124.70	0.00	103.72	102.29	102.01	104.35
20 :	41.70	0.00	100.17	099.47	42.10	0.00	100.24	101.03	127.40	0.00	103.74	102.26	101.87	104.30
21 :	41.60	0.00	100.27	099.22	40.70	0.00	099.75	100.82	126.60	0.00	103.53	102.18	101.79	103.99
22 :	41.00	0.00	100.19	099.18	40.50	0.00	099.58	100.75	109.90	0.00	103.05	102.01	101.72	103.81
23 :	27.50	0.00	100.05	098.86	35.70	0.00	099.68	100.74	80.30	0.00	102.89	101.98	101.70	103.52
24 :	26.80	0.00	100.03	098.97	33.90	0.00	099.65	100.60	77.80	0.00	102.73	101.94	101.66	103.52

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	DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.		
1	1.40	0.00	105.66	100.39	101.19	100.39	27.80	0.00	100.04	100.20	15.50	0.00	100.42	099.79		
2	1.50	0.00	105.91	100.26	101.07	100.08	27.50	0.00	099.85	099.95	15.10	0.00	100.40	099.77		
3	1.40	0.00	105.75	100.20	101.02	099.93	18.40	0.00	099.54	099.34	15.40	0.00	100.23	099.65		
4	1.40	0.00	105.42	100.19	100.83	099.80	17.60	0.00	099.52	098.93	15.20	0.00	100.26	099.65		
5	1.40	0.00	105.28	100.18	100.80	099.60	18.10	0.00	099.30	099.20	15.10	0.00	100.11	099.65		
6	1.40	0.00	105.23	100.00	100.66	099.45	18.30	0.00	098.98	098.89	15.80	0.00	100.11	099.48		
7	1.40	0.00	105.51	099.97	100.61	099.42	30.90	0.00	099.07	099.44	28.10	0.00	100.24	099.52		
8	1.50	0.00	105.70	100.24	100.55	099.80	31.20	0.00	099.48	099.41	32.70	0.00	100.27	099.52		
9	1.40	0.00	105.71	100.91	100.78	100.77	32.20	0.00	099.53	099.42	32.60	0.00	100.28	099.49		
10	1.40	0.00	105.97	101.31	101.25	101.68	32.50	0.00	099.50	099.57	40.40	0.00	100.55	099.51		
11	1.40	0.00	106.50	101.74	101.91	102.22	31.70	0.00	099.54	100.55	40.00	0.00	100.85	099.67		
12	1.40	0.00	106.94	102.38	102.36	103.33	30.90	0.00	099.72	100.56	41.20	0.00	100.56	099.84		
13	1.40	0.00	107.29	102.39	102.54	104.04	31.10	0.00	099.60	099.88	39.50	0.00	100.31	099.85		
14	1.40	0.00	107.28	103.47	102.95	103.88	29.70	0.00	099.77	099.83	35.10	0.00	100.48	099.85		
15	1.40	0.00	107.61	103.66	103.49	103.68	31.20	0.00	099.77	099.81	37.70	0.00	100.35	099.84		
16	1.40	0.00	107.61	103.85	103.56	103.72	28.00	0.00	099.74	099.56	29.60	0.00	100.31	099.89		
17	1.50	0.00	106.87	103.15	103.38	103.77	27.90	0.00	099.50	098.98	25.20	0.00	100.44	100.01		
18	1.40	0.00	106.51	102.53	103.18	103.46	25.50	0.00	099.30	098.73	25.20	0.00	100.31	099.89		
19	1.40	0.00	106.87	101.99	102.45	102.92	25.40	0.00	099.14	098.41	25.20	0.00	100.43	099.87		
20	1.40	0.00	105.46	101.51	101.95	102.14	26.20	0.00	098.86	098.37	25.20	0.00	100.30	099.68		
21	1.40	0.00	104.70	101.23	101.64	101.45	27.60	0.00	098.95	098.46	25.50	0.00	100.40	099.59		
22	1.40	0.00	104.51	100.92	101.31	101.06	27.70	0.00	098.64	098.49	28.70	0.00	100.23	099.47		
23	1.40	0.00	104.81	100.77	101.15	100.77	27.80	0.00	098.82	098.34	28.20	0.00	100.24	099.43		
24	1.40	0.00	104.96	100.59	101.03	100.50	29.60	0.00	098.73	098.14	21.00	0.00	100.15	099.39		
	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT		
1	14.40	0.00	100.12	099.30	10.00	0.00	100.96	100.85	69.70	0.00	102.64	102.49	101.92	102.49		
2	14.20	0.00	100.15	099.32	10.00	0.00	100.99	100.74	68.70	0.00	102.66	102.51	101.96	102.25		
3	15.90	0.00	100.13	099.43	10.10	0.00	101.14	100.74	70.20	0.00	102.66	102.52	102.11	102.14		
4	14.50	0.00	100.13	099.55	10.00	0.00	101.12	100.73	71.70	0.00	102.67	102.52	101.94	101.97		
5	14.40	0.00	100.13	099.72	11.50	0.00	101.18	100.79	98.90	0.00	102.66	102.51	102.11	101.89		
6	14.90	0.00	100.17	099.39	10.10	0.00	100.78	100.78	130.40	0.00	102.55	102.53	102.38	101.72		
7	21.30	0.00	100.13	099.42	13.00	0.00	100.62	100.79	147.80	0.00	102.52	102.40	102.22	101.75		
8	27.60	0.00	100.12	099.80	20.60	0.00	100.63	101.14	135.00	0.00	102.64	102.36	102.18	101.75		
9	36.00	0.00	100.17	100.04	29.80	0.00	100.48	102.00	133.10	0.00	102.75	102.36	102.31	101.87		
10	35.40	0.00	100.16	100.48	34.40	0.00	100.46	102.39	133.00	0.00	102.89	102.35	102.32	101.97		
11	35.40	0.00	100.20	101.03	35.40	0.00	100.44	102.24	134.20	0.00	102.88	102.47	102.43	102.35		
12	41.20	0.00	100.19	100.83	34.80	0.00	100.53	102.10	135.40	0.00	102.92	102.51	102.44	102.86		
13	41.60	0.00	100.24	101.10	34.50	0.00	100.53	102.25	141.30	0.00	102.96	102.77	102.44	103.13		
14	43.80	0.00	100.20	100.99	38.50	0.00	100.49	102.33	130.60	0.00	103.04	102.79	102.45	103.57		
15	44.20	0.00	100.23	100.88	40.50	0.00	100.46	102.17	124.00	0.00	103.14	102.85	102.78	103.90		
16	42.90	0.00	100.31	100.64	40.50	0.00	100.57	102.08	138.60	0.00	103.11	102.83	103.05	104.01		
17	42.90	0.00	100.28	100.57	42.10	0.00	100.41	101.91	139.20	0.00	103.14	102.97	102.81	104.01		
18	35.80	0.00	100.28	100.40	40.70	0.00	100.42	101.79	139.00	0.00	103.26	103.00	102.69	103.99		
19	27.90	0.00	100.25	100.33	40.60	0.00	100.42	101.72	140.80	0.00	103.52	102.97	102.57	104.01		
20	26.80	0.00	100.23	099.99	39.80	0.00	100.40	101.59	170.00	0.00	103.47	102.97	102.51	103.74		
21	23.30	0.00	100.39	099.65	35.00	0.00	100.34	101.36	172.00	0.00	103.44	102.85	102.28	103.39		
22	22.00	0.00	100.36	099.99	35.70	0.00	100.37	101.20	171.80	0.00	103.25	102.81	102.08	103.07		
23	21.50	0.00	100.19	099.68	21.50	0.00	100.45	101.00	126.00	0.00	102.61	102.89	101.90	102.73		
24	21.20	0.00	100.13	099.48	21.70	0.00	100.38	100.92	82.50	0.00	102.42	102.67	101.69	102.73		

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	DWRSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	
1	1.50	0.00	105.79	101.31	101.68	101.06	16.30	0.00	101.61	100.58	14.60	0.00	101.50	100.62	
2	1.40	0.00	105.67	101.35	101.58	100.91	17.80	0.00	101.40	100.77	17.20	0.00	101.58	100.67	
3	1.40	0.00	105.94	101.26	101.45	100.69	17.80	0.00	101.13	100.54	19.00	0.00	101.65	100.73	
4	1.40	0.00	106.38	101.13	101.41	100.57	17.70	0.00	100.87	100.43	15.90	0.00	101.61	100.73	
5	1.40	0.00	106.53	101.00	101.34	100.39	17.90	0.00	100.84	100.68	17.60	0.00	101.60	100.71	
6	1.40	0.00	106.24	100.97	101.20	100.38	17.40	0.00	100.81	100.76	18.90	0.00	101.41	100.67	
7	1.50	0.00	106.08	100.78	101.13	100.22	20.40	0.00	100.80	100.73	16.00	0.00	101.25	100.61	
8	1.40	0.00	106.05	100.86	101.13	100.30	24.30	0.00	100.74	100.94	24.60	0.00	101.28	100.55	
9	1.40	0.00	106.43	100.95	101.15	100.53	24.50	0.00	100.85	101.04	24.60	0.00	101.27	100.51	
10	1.40	0.00	106.64	101.31	101.21	101.14	24.50	0.00	100.89	105.94	25.30	0.00	101.23	100.44	
11	1.40	0.00	107.20	101.67	101.62	101.76	30.10	0.00	100.89	105.11	29.20	0.00	101.31	100.40	
12	1.50	0.00	107.46	102.23	101.99	102.55	30.30	0.00	100.99	103.57	29.60	0.00	101.39	100.39	
13	1.40	0.00	107.70	102.90	102.39	103.49	29.00	0.00	101.09	102.73	29.50	0.00	101.47	100.48	
14	1.40	0.00	107.87	103.28	102.93	104.38	29.00	0.00	101.20	105.01	29.70	0.00	101.58	100.42	
15	1.40	0.00	108.25	103.55	103.48	104.95	29.10	0.00	100.92	109.17	31.30	0.00	101.39	100.38	
16	1.40	0.00	108.37	103.63	103.38	104.79	18.90	0.00	100.74	108.63	31.50	0.00	101.24	100.31	
17	1.50	0.00	108.28	103.62	103.19	104.89	18.50	0.00	100.46	105.85	31.40	0.00	101.19	100.27	
18	1.40	0.00	107.68	103.12	103.02	104.39	19.70	0.00	100.26	104.48	27.80	0.00	101.09	100.16	
19	1.40	0.00	108.28	102.50	102.86	103.34	20.60	0.00	100.20	103.20	27.80	0.00	100.90	100.13	
20	1.40	0.00	106.64	101.87	102.59	102.50	35.80	0.00	100.38	102.32	30.90	0.00	100.73	100.09	
21	1.40	0.00	106.17	101.46	102.08	101.76	34.70	0.00	100.15	101.18	28.70	0.00	100.69	100.01	
22	1.50	0.00	105.81	100.99	101.75	101.34	34.40	0.00	100.11	100.47	34.60	0.00	100.77	099.87	
23	1.40	0.00	105.63	100.76	101.59	100.99	27.70	0.00	100.05	100.71	34.10	0.00	100.73	099.85	
24	1.40	0.00	105.48	100.46	101.44	100.58	27.40	0.00	099.88	100.43	23.70	0.00	100.58	099.80	
	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT	
1	16.40	0.00	101.31	100.78	18.80	0.00	100.51	102.26	62.80	0.00	103.86	103.83	103.43	104.02	
2	16.20	0.00	101.35	101.33	12.90	0.00	100.39	102.12	69.70	0.00	103.76	103.85	103.58	103.90	
3	14.50	0.00	101.36	101.06	14.00	0.00	100.57	102.02	80.90	0.00	103.79	103.77	103.45	103.81	
4	14.00	0.00	101.34	100.60	10.10	0.00	100.28	101.87	109.40	0.00	103.76	103.73	103.16	103.60	
5	13.60	0.00	101.31	100.33	11.50	0.00	100.52	101.81	110.80	0.00	103.67	103.70	103.11	103.28	
6	13.80	0.00	101.28	100.12	10.10	0.00	100.43	101.75	115.70	0.00	103.46	103.60	103.28	103.09	
7	13.80	0.00	101.08	100.08	10.30	0.00	100.47	101.81	128.40	0.00	103.28	103.50	103.07	102.84	
8	15.00	0.00	101.14	100.05	18.20	0.00	100.25	102.02	122.40	0.00	103.19	103.55	102.99	102.82	
9	27.70	0.00	101.12	100.59	25.30	0.00	100.49	102.37	118.40	0.00	103.22	103.35	102.77	102.71	
10	26.30	0.00	101.02	100.92	26.60	0.00	100.39	102.71	118.10	0.00	103.13	103.20	102.51	102.66	
11	29.60	0.00	100.97	100.87	35.50	0.00	100.46	102.67	116.40	0.00	103.14	103.10	102.41	102.72	
12	29.50	0.00	100.91	100.83	36.60	0.00	100.41	102.38	113.90	0.00	103.03	103.06	102.37	102.64	
13	29.40	0.00	100.86	100.81	34.90	0.00	100.08	102.63	116.60	0.00	103.12	103.02	102.29	102.78	
14	31.00	0.00	100.82	100.79	36.40	0.00	099.77	102.28	116.60	0.00	103.05	102.95	102.38	102.83	
15	30.30	0.00	100.79	100.79	34.90	0.00	000.00	102.00	118.90	0.00	103.21	103.07	102.75	102.92	
16	32.20	0.00	100.68	100.87	35.10	0.00	104.30	102.28	107.00	0.00	103.32	103.00	102.72	103.01	
17	31.20	0.00	100.82	100.72	35.00	0.00	103.35	102.20	103.80	0.00	103.42	103.00	102.70	103.14	
18	30.70	0.00	100.76	100.60	34.60	0.00	102.65	102.00	106.40	0.00	103.63	102.99	102.67	103.23	
19	31.10	0.00	100.60	100.23	26.10	0.00	102.19	101.83	98.50	0.00	103.60	102.91	102.64	103.17	
20	40.90	0.00	100.54	099.89	33.00	0.00	101.60	101.61	114.70	0.00	103.62	102.91	102.34	103.27	
21	42.00	0.00	100.51	099.83	33.60	0.00	101.03	101.57	119.20	0.00	103.23	102.83	102.17	103.19	
22	42.00	0.00	100.32	099.76	32.90	0.00	100.87	101.43	107.90	0.00	103.08	102.83	102.10	103.04	
23	28.20	0.00	100.28	099.48	20.00	0.00	100.99	101.27	66.80	0.00	102.95	102.67	101.97	102.90	
24	21.90	0.00	100.27	099.32	13.10	0.00	101.12	101.12	71.50	0.00	102.80	102.67	101.96	102.90	

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HOUR	DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.40	0.00	105.23	99.81	101.25	101.44	100.77	18.60	0.00	100.71	99.68	18.70	0.00	101.32	100.11
2	1.40	0.00	105.29	99.81	101.33	101.52	100.63	17.00	0.00	100.74	99.50	13.90	0.00	101.24	100.17
3	1.40	0.00	105.43	99.81	101.19	101.38	100.58	17.00	0.00	100.69	99.68	15.40	0.00	101.27	100.24
4	1.40	0.00	105.77	99.81	101.13	101.47	100.45	17.30	0.00	100.82	99.65	15.50	0.00	101.28	100.25
5	1.40	0.00	105.81	99.81	101.14	101.30	100.31	17.10	0.00	100.71	99.73	13.90	0.00	101.28	100.24
6	1.50	0.00	105.81	99.81	101.04	101.21	100.37	17.80	0.00	100.70	99.66	14.10	0.00	101.28	100.24
7	1.40	0.00	105.95	99.81	101.00	101.14	100.16	35.60	0.00	100.80	100.36	19.60	0.00	101.28	100.21
8	1.40	0.00	106.07	99.81	101.03	101.02	100.47	38.30	0.00	100.86	100.54	32.00	0.00	101.28	100.27
9	1.40	0.00	106.51	99.81	101.33	101.32	100.88	40.00	0.00	100.88	100.54	40.30	0.00	101.32	100.33
10	1.50	0.00	106.41	99.81	101.64	101.79	101.75	38.00	0.00	101.05	100.73	40.60	0.00	101.23	100.32
11	1.40	0.00	106.76	99.81	102.08	102.31	102.44	36.40	0.00	101.09	100.77	37.10	0.00	101.24	100.51
12	1.40	0.00	107.39	99.81	102.84	102.75	103.18	28.00	0.00	101.46	100.81	36.80	0.00	101.38	100.62
13	1.40	0.00	107.68	99.81	103.11	103.19	104.05	36.30	0.00	101.61	101.01	42.00	0.00	101.39	100.67
14	1.40	0.00	108.01	99.81	103.55	103.47	104.38	48.00	0.00	101.66	101.19	43.60	0.00	101.58	100.68
15	1.40	0.00	107.92	99.81	103.92	103.60	104.56	56.10	0.00	101.57	101.23	49.90	0.00	101.65	100.90
16	1.50	0.00	107.54	99.81	103.81	103.76	104.60	57.60	0.00	101.75	101.27	55.50	0.00	101.81	100.79
17	1.40	0.00	107.26	99.81	103.18	103.58	104.31	57.50	0.00	101.64	101.19	57.90	0.00	101.77	100.79
18	1.40	0.00	106.87	99.81	102.95	103.35	103.86	56.90	0.00	101.72	101.21	61.40	0.00	101.80	100.77
19	1.40	0.00	107.26	99.81	102.60	102.90	103.36	57.10	0.00	101.66	101.33	66.20	0.00	101.65	100.74
20	1.40	0.00	106.02	99.81	102.25	102.67	102.71	56.40	0.00	101.65	101.24	60.80	0.00	101.64	100.75
21	1.50	0.00	106.04	99.81	101.92	102.28	102.20	39.90	0.00	101.73	100.86	61.50	0.00	101.62	100.62
22	1.40	0.00	106.10	99.81	101.83	102.06	101.86	19.40	0.00	101.80	100.50	37.40	0.00	101.54	100.64
23	1.40	0.00	106.03	99.81	101.54	101.94	101.55	18.00	0.00	101.86	100.94	17.20	0.00	101.46	100.70
24	1.40	0.00	105.79	99.81	101.45	101.84	101.35	16.60	0.00	101.60	100.72	15.80	0.00	101.46	100.71
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT	
1	15.30	0.00	100.86	99.68	17.90	0.00	99.83	101.28	56.70	0.00	103.50	103.44	102.75	103.74	
2	15.20	0.00	100.92	100.49	17.60	0.00	99.72	101.19	56.20	0.00	103.37	103.51	102.64	103.48	
3	13.70	0.00	101.14	100.29	10.30	0.00	99.78	101.10	58.00	0.00	103.26	103.40	102.56	103.39	
4	14.10	0.00	100.99	100.05	11.40	0.00	99.84	101.17	58.90	0.00	103.30	103.43	102.46	103.20	
5	13.90	0.00	101.03	100.07	11.70	0.00	99.99	101.05	80.70	0.00	103.29	103.30	102.49	103.12	
6	13.90	0.00	100.91	99.79	10.10	0.00	99.60	101.07	102.80	0.00	103.37	103.31	102.37	102.97	
7	14.30	0.00	100.87	99.80	12.30	0.00	99.59	101.06	134.50	0.00	103.49	103.32	102.35	102.87	
8	26.00	0.00	100.91	100.39	21.80	0.00	99.77	101.67	142.90	0.00	103.49	103.22	102.54	102.71	
9	35.30	0.00	100.94	100.91	40.40	0.00	99.92	102.47	140.40	0.00	103.54	103.27	102.55	102.75	
10	45.60	0.00	101.11	100.96	45.20	0.00	100.34	102.66	141.00	0.00	103.59	103.30	102.74	102.94	
11	47.70	0.00	101.20	101.39	45.50	0.00	100.40	102.56	126.50	0.00	103.75	103.36	103.03	103.27	
12	47.20	0.00	101.14	101.50	46.30	0.00	100.62	102.69	124.00	0.00	103.77	103.49	103.01	103.62	
13	47.80	0.00	101.18	101.74	47.10	0.00	100.73	102.86	139.50	0.00	103.85	103.56	103.38	104.10	
14	42.90	0.00	101.27	101.20	49.80	0.00	100.80	102.97	142.10	0.00	104.07	103.66	103.32	104.62	
15	49.60	0.00	101.19	101.37	56.50	0.00	100.98	102.97	151.00	0.00	104.19	103.67	103.05	104.89	
16	49.90	0.00	101.23	101.17	55.40	0.00	100.94	102.57	151.60	0.00	104.21	103.70	102.99	105.01	
17	52.70	0.00	101.27	100.83	59.60	0.00	100.92	102.53	154.60	0.00	104.40	103.70	102.88	105.00	
18	60.80	0.00	101.28	100.66	64.00	0.00	100.96	102.42	147.00	0.00	104.28	103.55	103.45	105.17	
19	66.20	0.00	101.44	100.94	67.00	0.00	101.16	102.36	143.50	0.00	104.18	103.60	103.33	105.09	
20	66.00	0.00	101.47	100.96	73.30	0.00	101.17	102.21	145.80	0.00	104.09	103.62	103.08	104.99	
21	64.30	0.00	101.47	100.82	74.00	0.00	101.16	102.25	153.10	0.00	104.21	103.50	103.08	104.86	
22	59.70	0.00	101.40	100.72	72.40	0.00	101.09	102.29	107.70	0.00	104.14	103.71	103.06	104.66	
23	39.80	0.00	101.28	100.62	56.20	0.00	100.88	102.39	66.20	0.00	103.96	103.76	103.11	104.43	
24	21.70	0.00	101.31	100.50	36.30	0.00	100.64	102.24	67.90	0.00	103.88	103.82	103.14	104.43	

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	DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPIILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPIILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPIILL KCFS	GAS FB	%SAT. TAILW.	
1	1.50	0.00	103.05	100.04	100.36	100.05	28.40	0.00	099.38	099.04	15.50	0.00	100.37	099.51	
2	1.50	0.00	103.18	099.88	100.23	099.93	27.90	0.00	099.67	099.03	15.50	0.00	100.35	099.48	
3	1.50	0.00	103.30	099.85	100.19	099.64	19.40	0.00	099.77	098.64	15.20	0.00	100.36	099.52	
4	1.50	0.00	103.53	099.77	100.13	099.45	18.30	0.00	099.88	098.49	15.20	0.00	100.35	099.48	
5	1.50	0.00	103.89	099.74	100.19	099.30	18.30	0.00	099.73	098.85	15.60	0.00	100.33	099.48	
6	1.50	0.00	104.31	099.74	100.11	099.28	18.70	0.00	099.83	098.96	26.20	0.00	100.32	099.42	
7	1.50	0.00	104.15	099.73	100.20	099.29	38.30	0.00	100.05	099.43	39.90	0.00	100.27	099.39	
8	1.50	0.00	104.15	099.95	100.19	099.53	40.00	0.00	099.88	099.67	42.80	0.00	100.21	099.36	
9	1.50	0.00	104.15	100.64	100.47	100.03	39.70	0.00	099.89	099.84	43.50	0.00	100.27	099.50	
10	1.50	0.00	104.31	101.38	100.77	101.17	40.60	0.00	100.09	099.73	43.20	0.00	100.28	099.55	
11	1.50	0.00	104.54	102.38	101.39	102.09	40.00	0.00	100.39	099.91	42.90	0.00	100.43	099.51	
12	1.50	0.00	105.18	103.29	101.78	102.99	40.10	0.00	100.32	100.08	42.90	0.00	100.51	099.73	
13	1.50	0.00	105.52	104.07	102.31	104.30	40.10	0.00	100.79	100.45	46.20	0.00	100.59	099.81	
14	1.50	0.00	106.01	104.32	102.85	105.28	40.40	0.00	101.15	100.37	50.40	0.00	100.70	099.89	
15	1.50	0.00	106.11	104.23	103.06	105.28	40.40	0.00	101.34	100.37	50.10	0.00	100.76	100.03	
16	1.40	0.00	105.95	104.38	103.23	105.21	40.40	0.00	100.90	100.44	50.70	0.00	101.01	100.12	
17	1.40	0.00	105.74	104.00	103.02	104.75	43.00	0.00	100.73	100.38	50.80	0.00	101.05	100.17	
18	1.40	0.00	105.90	103.52	102.82	104.23	40.60	0.00	100.77	100.31	50.80	0.00	101.14	100.27	
19	1.50	0.00	105.74	103.02	102.71	103.66	40.50	0.00	100.78	100.07	50.80	0.00	101.17	100.16	
20	1.40	0.00	105.54	102.48	102.37	102.98	36.60	0.00	100.78	099.95	51.60	0.00	101.18	100.16	
21	1.40	0.00	105.26	102.04	102.00	102.17	33.10	0.00	100.81	100.11	50.50	0.00	101.21	100.17	
22	1.40	0.00	105.27	101.80	101.78	101.51	28.80	0.00	100.86	100.15	40.60	0.00	101.22	100.12	
23	1.40	0.00	105.51	101.54	101.76	101.13	17.30	0.00	100.82	099.70	18.90	0.00	101.18	100.15	
24	1.50	0.00	105.38	101.37	101.61	100.85	14.60	0.00	100.71	099.41	17.30	0.00	101.18	100.12	
	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR:	TOTAL DISCH KCFS	SPIILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPIILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPIILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT	
1	20.90	0.00	100.65	099.44	13.40	0.00	099.38	100.86	50.10	0.00	102.98	103.00	102.45	103.43	
2	20.70	0.00	100.52	099.59	12.80	0.00	099.37	100.69	49.70	0.00	103.07	102.95	102.26	103.14	
3	20.60	0.00	100.48	099.54	13.00	0.00	099.26	100.71	64.10	0.00	103.57	102.92	102.25	102.85	
4	20.60	0.00	100.60	099.50	14.30	0.00	099.37	100.54	90.50	0.00	103.45	102.88	102.33	102.54	
5	21.00	0.00	100.47	099.48	27.90	0.00	099.36	100.54	110.00	0.00	103.43	102.88	102.44	102.31	
6	32.10	0.00	100.43	099.55	30.20	0.00	099.30	100.87	114.50	0.00	103.25	102.85	102.52	101.94	
7	40.40	0.00	100.41	099.66	38.90	0.00	099.25	100.99	128.00	0.00	103.21	102.78	102.35	101.78	
8	48.70	0.00	100.52	100.05	48.60	0.00	099.38	101.12	128.00	0.00	103.18	102.76	102.34	101.63	
9	49.00	0.00	100.51	100.05	49.40	0.00	099.47	101.04	128.10	0.00	103.30	102.90	102.60	101.62	
10	50.20	0.00	100.52	100.30	50.00	0.00	099.47	101.45	126.50	0.00	103.84	102.92	102.73	101.78	
11	44.90	0.00	100.60	100.81	45.30	0.00	099.53	101.25	125.30	0.00	104.53	103.10	103.06	102.21	
12	48.50	0.00	100.64	101.38	49.00	0.00	099.45	101.46	126.20	0.00	105.05	103.21	103.44	102.68	
13	49.60	0.00	100.72	101.51	49.50	0.00	099.67	101.70	128.10	0.00	104.87	103.45	103.39	103.21	
14	56.70	0.00	100.83	101.40	55.00	0.00	099.82	102.25	126.70	0.00	104.93	103.56	103.64	103.73	
15	55.20	0.00	100.94	101.56	55.20	0.00	099.91	102.09	127.10	0.00	105.31	103.85	103.75	104.23	
16	54.90	0.00	101.16	101.45	56.10	0.00	100.16	102.13	132.40	0.00	105.16	103.93	103.61	104.73	
17	55.10	0.00	101.17	101.16	56.70	0.00	100.11	102.15	134.80	0.00	105.24	104.01	103.68	105.07	
18	55.10	0.00	101.07	101.01	56.50	0.00	100.03	102.20	133.60	0.00	105.26	104.08	103.46	105.29	
19	54.90	0.00	101.11	100.57	56.50	0.00	100.11	102.23	133.00	0.00	104.99	104.07	103.21	105.36	
20	55.10	0.00	100.86	100.43	55.10	0.00	100.07	101.92	149.80	0.00	104.75	104.04	102.93	105.12	
21	57.70	0.00	100.94	100.61	54.80	0.00	100.01	101.83	153.50	0.00	104.67	103.88	102.76	104.81	
22	56.10	0.00	101.02	100.37	49.20	0.00	100.09	101.65	149.90	0.00	104.26	103.80	102.59	104.54	
23	38.10	0.00	101.05	099.95	33.80	0.00	100.08	101.56	94.50	0.00	103.81	103.70	103.01	104.25	
24	14.90	0.00	100.84	099.81	18.60	0.00	099.96	101.43	57.70	0.00	103.58	103.56	102.61	104.25	

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	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR:	TOTAL DISCH. KCFS	SPIILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPIILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPIILL KCFS	GAS FB	%SAT. TAILW.
1	1.50	0.00	103.94	100.23	100.34	099.74	17.10	0.00	100.32	099.60	18.00	0.00	101.85	100.73
2	1.50	0.00	104.19	100.26	100.38	099.61	14.40	0.00	100.34	099.33	12.80	0.00	101.83	100.52
3	1.50	0.00	104.12	100.22	100.27	099.61	14.40	0.00	100.28	099.26	12.60	0.00	101.78	100.47
4	1.50	0.00	103.94	100.15	100.31	099.53	14.60	0.00	100.19	099.14	12.60	0.00	101.74	100.42
5	1.50	0.00	103.61	099.97	100.20	099.48	15.90	0.00	099.99	099.15	14.00	0.00	101.50	100.36
6	1.50	0.00	103.28	099.93	100.16	099.28	15.10	0.00	099.68	099.46	13.10	0.00	101.62	100.19
7	1.50	0.00	103.06	099.85	100.04	099.19	15.40	0.00	099.45	099.38	13.20	0.00	101.51	100.11
8	1.50	0.00	103.12	100.07	100.01	099.38	20.20	0.00	099.10	099.60	12.90	0.00	101.29	100.00
9	1.50	0.00	103.37	100.57	100.20	100.18	26.80	0.00	099.23	099.83	20.60	0.00	101.12	100.08
10	1.50	0.00	103.65	101.06	100.54	101.19	28.70	0.00	099.15	099.91	28.90	0.00	100.94	100.09
11	1.50	0.00	104.15	101.41	100.92	102.23	28.60	0.00	099.48	099.99	28.80	0.00	100.98	100.16
12	1.50	0.00	104.53	102.18	101.18	102.75	29.20	0.00	099.60	100.08	29.10	0.00	100.86	100.09
13	1.50	0.00	104.62	102.90	101.34	102.70	30.30	0.00	099.61	100.05	30.90	0.00	100.89	100.24
14	1.50	0.00	104.77	103.53	101.78	103.20	30.80	0.00	099.58	099.92	30.30	0.00	100.87	100.24
15	1.50	0.00	104.99	103.67	101.88	104.16	30.10	0.00	099.58	100.04	28.80	0.00	101.00	100.23
16	1.50	0.00	104.82	103.35	102.28	104.38	30.10	0.00	099.54	099.88	28.70	0.00	100.94	100.25
17	1.50	0.00	104.66	103.19	102.43	104.49	30.10	0.00	099.48	099.84	31.80	0.00	100.90	100.20
18	1.50	0.00	104.61	102.87	102.37	104.18	30.00	0.00	099.46	099.68	28.90	0.00	100.82	100.12
19	1.50	0.00	104.66	102.47	101.91	103.73	32.00	0.00	099.42	099.46	28.90	0.00	100.78	099.99
20	1.50	0.00	103.83	101.93	101.72	102.75	40.90	0.00	099.52	099.44	35.80	0.00	100.71	099.89
21	1.50	0.00	103.50	101.34	101.23	101.90	43.90	0.00	099.60	099.48	40.60	0.00	100.71	099.83
22	1.50	0.00	103.31	100.85	100.86	101.14	44.10	0.00	099.56	099.36	40.70	0.00	100.66	099.76
23	1.50	0.00	103.40	100.53	100.58	100.70	28.70	0.00	099.49	099.14	39.90	0.00	100.63	099.71
24	1.50	0.00	103.24	100.22	100.45	100.42	29.60	0.00	099.42	099.08	26.00	0.00	100.58	099.71
	LOWER MONUMENTAL			ICE HARBOR			MCNARY			PASCO				
HOUR:	TOTAL DISCH KCFS	SPIILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPIILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPIILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	27.20	0.00	102.02	100.79	19.60	0.00	100.55	102.17	71.10	0.00	104.29	104.01	103.82	104.18
2	14.10	0.00	101.97	100.76	11.80	0.00	100.47	101.94	53.40	0.00	104.38	103.95	103.50	103.88
3	13.90	0.00	101.97	100.44	12.60	0.00	100.45	101.77	51.20	0.00	104.07	103.89	103.35	103.58
4	13.80	0.00	101.74	100.32	11.30	0.00	100.25	101.72	50.80	0.00	104.17	103.72	103.01	103.26
5	15.90	0.00	101.69	100.53	11.30	0.00	100.19	101.53	56.60	0.00	103.84	103.69	102.98	103.06
6	14.10	0.00	101.48	100.32	11.80	0.00	100.13	101.49	71.90	0.00	103.61	103.60	102.93	102.70
7	14.50	0.00	101.38	100.39	19.20	0.00	100.11	101.45	86.90	0.00	103.56	103.55	102.83	102.54
8	15.60	0.00	101.34	100.57	19.40	0.00	100.16	101.93	101.60	0.00	103.34	103.46	103.04	102.30
9	19.80	0.00	101.29	101.04	19.70	0.00	100.13	102.08	103.00	0.00	103.48	103.34	103.01	102.30
10	20.10	0.00	101.30	101.85	19.40	0.00	100.09	102.83	105.10	0.00	103.45	103.43	103.14	102.57
11	27.60	0.00	101.23	101.93	21.10	0.00	100.07	102.89	110.90	0.00	103.46	103.42	103.38	102.76
12	27.70	0.00	101.33	102.27	26.70	0.00	100.05	103.00	110.00	0.00	103.55	103.43	103.53	103.00
13	27.70	0.00	101.37	102.05	32.00	0.00	100.04	103.37	111.40	0.00	103.69	103.40	103.50	103.26
14	29.40	0.00	101.34	102.17	32.30	0.00	100.01	103.71	110.10	0.00	104.09	103.42	103.51	103.51
15	27.70	0.00	101.31	102.56	33.00	0.00	100.05	103.41	112.50	0.00	104.35	103.46	103.53	103.92
16	28.10	0.00	101.30	102.51	31.00	0.00	099.92	103.26	111.10	0.00	104.66	103.58	103.39	104.36
17	27.90	0.00	101.22	101.79	31.10	0.00	099.87	102.98	111.90	0.00	104.55	103.55	103.24	104.59
18	39.90	0.00	101.33	101.40	31.40	0.00	099.99	102.74	111.20	0.00	104.77	103.61	103.14	104.77
19	39.10	0.00	101.42	101.01	38.70	0.00	099.91	102.29	103.10	0.00	104.86	103.53	103.11	104.75
20	38.90	0.00	101.34	100.51	39.20	0.00	099.70	101.78	105.50	0.00	104.77	103.46	103.02	104.67
21	40.50	0.00	101.24	100.78	40.00	0.00	099.74	101.43	109.50	0.00	104.56	103.43	102.91	104.41
22	38.70	0.00	100.93	100.69	39.20	0.00	099.71	101.24	88.50	0.00	104.23	103.40	102.74	104.40
23	39.00	0.00	101.04	099.95	40.30	0.00	099.62	101.23	74.00	0.00	103.50	103.26	102.51	104.21
24	28.10	0.00	100.97	099.75	25.10	0.00	099.57	101.03	53.00	0.00	103.02	103.20	102.47	104.21

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	DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR :	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.		
1	1.50	0.00	105.46	100.67	101.13	100.41	14.40	0.00	101.06	100.70	19.40	0.00	101.72	100.73		
2	1.50	0.00	105.52	100.70	101.13	100.24	14.90	0.00	101.74	100.45	15.70	0.00	101.71	100.74		
3	1.50	0.00	105.41	100.59	101.15	100.16	14.90	0.00	101.87	100.32	15.60	0.00	101.78	100.65		
4	1.50	0.00	105.13	100.60	100.98	100.05	15.10	0.00	101.86	100.28	15.50	0.00	101.76	100.58		
5	1.50	0.00	105.16	100.57	100.97	100.04	15.80	0.00	101.69	100.41	14.30	0.00	101.72	100.55		
6	1.50	0.00	105.40	100.40	100.75	099.84	17.10	0.00	101.68	100.95	14.30	0.00	101.56	100.54		
7	1.50	0.00	105.55	100.41	100.60	099.82	34.80	0.00	101.78	101.28	12.90	0.00	101.67	100.47		
8	1.50	0.00	105.64	100.37	100.56	099.81	35.70	0.00	101.63	101.30	13.90	0.00	101.54	100.50		
9	1.50	0.00	105.77	100.64	100.72	100.05	35.60	0.00	101.37	101.27	28.40	0.00	101.64	100.63		
10	1.50	0.00	105.85	100.89	100.82	100.38	36.50	0.00	101.15	101.26	35.80	0.00	101.60	100.73		
11	1.50	0.00	105.77	101.16	101.11	100.84	37.10	0.00	101.19	101.27	39.00	0.00	101.60	100.74		
12	1.50	0.00	106.04	101.43	101.35	101.29	36.50	0.00	101.11	101.15	36.10	0.00	101.81	100.74		
13	1.50	0.00	105.90	101.57	101.48	101.37	36.50	0.00	100.92	100.97	37.10	0.00	101.77	100.75		
14	1.50	0.00	105.80	101.62	101.69	101.28	36.40	0.00	100.93	100.99	36.40	0.00	101.73	100.73		
15	1.50	0.00	105.98	101.64	101.60	101.47	36.70	0.00	100.95	100.88	36.30	0.00	101.80	100.75		
16	1.50	0.00	105.55	101.61	101.46	101.43	37.40	0.00	100.83	100.86	36.20	0.00	101.95	100.75		
17	1.50	0.00	104.99	101.60	101.44	101.29	37.50	0.00	100.83	100.86	36.30	0.00	101.94	100.81		
18	1.50	0.00	104.78	101.39	101.15	101.14	37.20	0.00	100.66	100.72	36.00	0.00	101.95	100.79		
19	1.50	0.00	104.99	100.93	100.93	100.83	37.80	0.00	100.51	100.73	36.10	0.00	101.95	100.81		
20	1.50	0.00	104.07	100.60	100.78	100.38	37.10	0.00	100.49	100.54	40.50	0.00	101.91	100.79		
21	1.50	0.00	104.14	100.39	100.56	100.19	36.30	0.00	100.35	100.38	40.70	0.00	101.87	100.74		
22	1.50	0.00	104.27	100.41	100.52	099.93	28.90	0.00	100.34	100.54	41.20	0.00	102.06	100.77		
23	1.50	0.00	104.24	100.27	100.49	099.90	28.00	0.00	100.11	100.27	29.60	0.00	101.92	100.81		
24	1.50	0.00	103.96	100.27	100.41	099.78	19.30	0.00	099.96	099.88	29.10	0.00	101.92	100.78		
	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR :	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT		
1	19.80	0.00	102.29	101.50	28.80	0.00	100.88	102.57	88.70	0.00	104.42	104.50	103.54	103.60		
2	15.20	0.00	102.31	101.38	14.90	0.00	100.75	102.48	80.70	0.00	104.29	104.50	103.56	103.49		
3	16.50	0.00	102.21	101.25	11.40	0.00	100.63	102.32	71.10	0.00	104.14	104.38	103.56	103.19		
4	15.40	0.00	102.17	101.33	11.40	0.00	100.61	102.20	70.40	0.00	104.10	104.38	103.42	103.04		
5	15.00	0.00	102.16	101.30	11.40	0.00	100.45	102.03	70.60	0.00	103.99	104.23	103.40	103.02		
6	15.10	0.00	102.12	101.15	11.80	0.00	100.11	101.99	71.40	0.00	103.78	104.02	103.33	102.84		
7	18.80	0.00	102.10	101.29	21.50	0.00	100.24	102.23	95.80	0.00	103.79	104.14	103.22	102.69		
8	19.20	0.00	102.09	101.45	22.60	0.00	100.36	102.40	99.80	0.00	103.78	104.00	103.47	102.64		
9	21.40	0.00	101.93	101.77	22.40	0.00	100.49	102.71	101.90	0.00	104.71	104.16	103.45	102.81		
10	27.60	0.00	101.93	101.96	25.00	0.00	100.45	102.72	106.70	0.00	104.38	104.14	103.56	103.08		
11	36.80	0.00	101.89	102.25	34.40	0.00	100.61	102.81	106.40	0.00	104.27	104.13	103.65	103.32		
12	36.50	0.00	101.89	102.27	38.20	0.00	100.56	102.88	107.40	0.00	104.21	104.12	103.65	103.57		
13	36.40	0.00	101.94	102.14	38.40	0.00	100.63	103.08	106.30	0.00	104.07	104.14	103.84	103.89		
14	36.60	0.00	102.12	102.83	39.10	0.00	100.77	103.16	112.20	0.00	104.46	104.19	104.02	104.18		
15	36.80	0.00	102.15	102.42	39.80	0.00	100.81	103.15	112.90	0.00	105.29	104.38	104.08	104.50		
16	37.10	0.00	102.15	101.92	41.40	0.00	100.71	103.02	112.80	0.00	106.39	104.38	104.20	104.93		
17	37.80	0.00	102.27	101.87	41.30	0.00	100.81	102.87	112.90	0.00	106.24	104.40	104.08	105.07		
18	37.90	0.00	102.16	101.69	43.00	0.00	100.87	103.00	113.20	0.00	106.54	104.36	103.95	105.19		
19	40.50	0.00	102.29	101.52	44.50	0.00	100.85	102.85	113.20	0.00	106.03	104.39	103.84	105.19		
20	41.50	0.00	102.27	101.35	42.30	0.00	100.97	102.80	113.70	0.00	105.86	104.38	103.67	105.19		
21	40.40	0.00	102.06	101.15	42.20	0.00	100.76	102.65	113.10	0.00	105.56	104.32	103.63	105.00		
22	40.40	0.00	102.06	101.15	42.30	0.00	100.91	102.63	99.70	0.00	105.29	104.28	103.60	104.86		
23	40.00	0.00	102.20	101.13	41.70	0.00	100.91	102.48	81.60	0.00	104.27	104.22	103.43	104.55		
24	28.40	0.00	102.05	101.02	25.70	0.00	100.60	102.45	78.90	0.00	104.07	104.05	103.66	104.55		

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WALLA WALLA DISTRICT HYDRO PROJECTS
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HOUR	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
	TOTAL DISCH.	SPILL	GAS %SAT	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH	SPILL	GAS FB	%SAT TAILW.	TOTAL DISCH	SPILL	GAS FB	%SAT TAILW.
	KCFS	KCFS	TAILW.	%SAT	%SAT	%SAT	KCFS	KCFS			KCFS	KCFS		
1	1.40	0.00	106.32	101.97	102.19	101.89	14.30	0.00	102.41	100.87	15.50	0.00	102.10	101.29
2	1.40	0.00	106.35	101.89	102.14	101.63	14.10	0.00	102.08	100.89	12.50	0.00	101.84	101.23
3	1.40	0.00	106.52	101.72	102.03	101.39	14.10	0.00	102.13	100.85	12.80	0.00	101.78	101.28
4	1.50	0.00	106.67	101.57	101.86	101.15	14.30	0.00	102.17	101.03	12.70	0.00	101.92	101.23
5	1.40	0.00	106.65	101.45	101.74	100.99	14.80	0.00	102.22	101.36	13.80	0.00	101.92	101.26
6	1.40	0.00	106.64	101.31	101.45	100.86	15.50	0.00	101.89	101.46	15.70	0.00	101.74	101.11
7	1.40	0.00	106.34	101.33	101.30	100.74	34.40	0.00	101.89	101.75	35.40	0.00	101.90	101.13
8	1.50	0.00	106.35	101.18	101.15	100.72	39.70	0.00	101.84	101.73	42.60	0.00	101.89	101.11
9	1.40	0.00	106.50	101.34	101.15	100.90	41.50	0.00	102.24	102.03	49.40	0.00	102.04	101.26
10	1.40	0.00	106.96	101.79	101.49	101.55	42.70	0.00	102.64	102.05	50.00	0.00	102.01	101.24
11	1.40	0.00	107.64	102.17	101.95	102.22	44.10	0.00	102.62	101.98	50.10	0.00	101.97	101.19
12	1.40	0.00	108.19	102.46	102.22	102.67	44.30	0.00	102.47	102.03	50.40	0.00	101.94	101.19
13	1.50	0.00	108.34	102.53	102.56	102.93	44.70	0.00	102.92	102.15	54.70	0.00	101.83	101.24
14	1.50	0.00	108.33	102.82	102.56	103.20	44.80	0.00	102.75	102.02	56.10	0.00	101.85	101.43
15	1.50	0.00	107.66	102.68	102.71	103.48	45.50	0.00	102.67	101.92	55.10	0.00	101.82	101.28
16	1.50	0.00	107.43	102.47	102.57	103.63	44.80	0.00	102.37	101.73	60.10	0.00	101.83	101.27
17	1.50	0.00	106.93	102.28	102.42	103.30	44.90	0.00	102.22	101.61	61.70	0.00	101.83	101.27
18	1.50	0.00	106.47	102.01	102.23	102.85	44.80	0.00	102.07	101.63	61.70	0.00	101.81	101.26
19	1.50	0.00	106.93	101.64	101.97	102.32	44.80	0.00	102.07	101.57	62.20	0.00	101.78	101.11
20	1.50	0.00	105.49	101.37	101.70	101.76	41.60	0.00	102.02	101.42	62.10	0.00	101.67	101.05
21	1.50	0.00	105.20	101.19	101.53	101.33	28.20	0.00	101.85	UNDEF	58.20	0.00	101.80	101.01
22	1.50	0.00	105.32	101.01	101.34	100.99	27.50	0.00	101.67	101.31	57.70	0.00	101.82	100.96
23	1.50	0.00	105.43	100.85	101.28	100.72	20.00	0.00	101.61	100.88	39.50	0.00	101.80	100.80
24	1.50	0.00	105.69	100.71	101.13	100.54	14.30	0.00	100.90	100.72	21.50	0.00	101.73	100.77
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO	
	TOTAL DISCH	SPILL	GAS FB	%SAT TAILW.	TOTAL DISCH	SPILL	GAS FB	%SAT TAILW.	TOTAL DISCH	SPILL	GAS OR FB	%SAT WA FB	%SAT TAILW.	GAS % SAT
	KCFS	KCFS			KCFS	KCFS			KCFS	KCFS				
1	13.80	0.00	102.78	101.48	13.30	0.00	100.95	102.46	61.80	0.00	105.86	105.57	103.95	105.08
2	13.80	0.00	102.76	101.44	12.80	0.00	100.91	102.38	51.10	0.00	105.80	105.63	104.15	104.76
3	14.00	0.00	102.57	101.49	11.50	0.00	100.84	102.45	54.60	0.00	105.84	105.55	104.05	104.70
4	13.70	0.00	102.78	101.65	12.60	0.00	100.90	102.37	84.50	0.00	106.03	105.37	103.98	104.43
5	15.40	0.00	102.75	101.68	12.70	0.00	100.91	102.41	106.90	0.00	106.08	105.35	104.00	104.33
6	14.90	0.00	102.78	101.68	13.70	0.00	100.95	102.54	119.10	0.00	105.52	105.21	103.87	103.92
7	33.70	0.00	102.76	101.95	35.40	0.00	101.08	102.58	125.90	0.00	105.38	105.09	104.12	103.66
8	40.60	0.00	102.75	101.98	43.60	0.00	101.30	102.68	127.70	0.00	105.20	104.90	104.12	103.49
9	48.90	0.00	102.75	102.24	49.10	0.00	101.26	102.73	129.60	0.00	105.00	104.94	104.12	103.35
10	51.80	0.00	102.71	102.27	52.90	0.00	101.55	102.88	129.40	0.00	104.69	104.78	104.22	103.33
11	51.90	0.00	102.58	102.30	52.80	0.00	101.50	102.81	120.80	0.00	104.53	104.73	104.33	103.43
12	51.80	0.00	102.56	102.38	55.60	0.00	101.50	103.07	119.40	0.00	104.41	104.79	104.33	103.61
13	55.50	0.00	102.54	102.42	56.10	0.00	101.70	103.08	118.20	0.00	104.34	104.83	104.24	103.73
14	58.70	0.00	102.46	102.86	56.40	0.00	101.67	103.62	117.60	0.00	104.21	105.04	104.45	104.07
15	61.90	0.00	102.36	102.82	61.90	0.00	101.77	103.42	123.20	0.00	104.52	105.04	104.47	104.35
16	67.90	0.00	102.36	102.53	61.50	0.00	101.90	103.44	127.70	0.00	105.03	105.19	104.31	104.65
17	71.50	0.00	102.61	102.36	61.30	0.00	101.89	103.39	128.50	0.00	105.52	105.13	104.25	104.89
18	72.10	0.00	102.48	102.41	61.40	0.00	101.89	103.21	128.90	0.00	105.40	105.11	104.12	105.00
19	72.30	0.00	102.58	102.44	62.30	0.00	101.70	103.16	129.00	0.00	105.36	105.10	104.12	104.97
20	75.10	0.00	102.52	102.04	61.30	0.00	101.63	102.94	129.30	0.00	105.29	104.88	103.92	104.79
21	72.40	0.00	102.76	101.98	62.90	0.00	101.56	102.87	129.30	0.00	105.23	104.80	103.73	104.59
22	71.40	0.00	102.69	101.93	62.30	0.00	101.51	102.84	129.20	0.00	105.04	104.77	103.70	104.28
23	39.10	0.00	102.40	101.76	44.30	0.00	101.25	102.70	111.60	0.00	104.73	104.59	103.64	104.06
24	20.40	0.00	102.34	101.70	29.60	0.00	100.91	102.62	91.40	0.00	104.57	104.52	103.58	104.06

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	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.40	0.00	104.43	101.04	100.77	100.07	14.20	0.00	099.28	099.67	13.40	0.00	101.23	100.51
2	1.40	0.00	104.46	100.94	100.61	099.85	14.20	0.00	099.17	099.65	12.90	0.00	101.35	100.36
3	1.40	0.00	104.60	100.69	100.61	099.72	14.10	0.00	098.96	099.53	12.50	0.00	101.11	100.39
4	1.50	0.00	104.58	100.55	100.54	099.57	14.40	0.00	098.83	099.59	12.40	0.00	101.27	100.32
5	1.40	0.00	104.76	100.43	100.46	099.52	15.20	0.00	100.00	100.01	13.10	0.00	101.07	100.36
6	1.40	0.00	104.82	100.46	100.42	099.41	25.00	0.00	100.17	100.35	25.50	0.00	101.00	100.29
7	1.40	0.00	104.96	100.35	100.23	099.31	25.00	0.00	100.17	100.23	34.00	0.00	100.99	100.31
8	1.40	0.00	105.13	100.53	100.38	099.48	47.20	0.00	100.62	100.40	44.10	0.00	101.03	100.33
9	1.50	0.00	105.21	101.01	100.59	100.23	47.20	0.00	101.07	100.45	57.50	0.00	101.11	100.53
10	1.40	0.00	105.84	101.74	101.07	101.20	46.80	0.00	101.26	100.64	56.50	0.00	101.03	100.60
11	1.40	0.00	106.66	102.69	101.95	102.53	46.80	0.00	101.33	100.88	56.10	0.00	101.19	100.67
12	1.40	0.00	107.53	103.57	102.84	103.72	46.50	0.00	101.93	101.29	56.00	0.00	101.49	100.86
13	1.40	0.00	108.17	104.42	103.48	104.88	47.80	0.00	101.81	101.71	55.90	0.00	101.88	101.11
14	1.50	0.00	108.68	105.27	104.18	105.83	47.30	0.00	102.73	101.83	50.00	0.00	101.23	101.23
15	1.40	0.00	108.84	105.58	104.52	106.43	48.00	0.00	102.84	102.21	50.00	0.00	101.62	101.37
16	1.40	0.00	108.82	105.74	104.84	106.65	47.20	0.00	102.94	102.44	60.20	0.00	101.44	101.46
17	1.40	0.00	108.50	105.28	104.88	106.36	47.00	0.00	103.15	101.98	58.60	0.00	101.22	101.41
18	1.50	0.00	108.05	104.64	104.54	105.61	39.60	0.00	102.70	101.70	50.60	0.00	101.40	101.48
19	1.40	0.00	108.50	104.01	104.02	104.86	39.80	0.00	102.20	101.59	50.40	0.00	101.61	101.55
20	1.40	0.00	107.01	103.34	103.47	104.12	39.20	0.00	102.27	101.53	50.50	0.00	101.70	101.54
21	1.40	0.00	106.77	102.81	103.08	103.44	46.60	0.00	102.44	101.80	50.60	0.00	101.77	101.43
22	1.40	0.00	106.52	102.58	102.76	102.91	48.70	0.00	102.58	101.81	53.60	0.00	101.87	101.48
23	1.50	0.00	106.32	102.36	102.57	102.56	36.40	0.00	102.74	101.70	36.10	0.00	102.06	101.44
24	1.40	0.00	106.19	102.09	102.33	102.18	17.60	0.00	102.44	101.12	17.90	0.00	102.20	101.32
	LOWER MONUMENTAL			ICE HARBOR			MCNARY			PASCO				
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	13.50	0.00	101.40	100.04	12.80	0.00	100.16	101.37	60.10	0.00	103.12	104.57	102.28	104.03
2	15.10	0.00	101.40	100.03	10.30	0.00	100.33	101.11	58.60	0.00	102.75	104.59	102.43	103.67
3	15.00	0.00	101.21	100.44	12.80	0.00	100.47	101.04	58.50	0.00	102.65	104.75	102.59	103.43
4	14.00	0.00	101.13	100.75	13.00	0.00	100.69	100.95	69.10	0.00	102.56	104.79	102.79	103.48
5	14.70	0.00	101.58	100.79	13.90	0.00	100.61	101.02	88.50	0.00	102.48	104.59	102.96	103.28
6	26.50	0.00	101.87	100.44	25.10	0.00	100.79	101.04	104.90	0.00	102.52	104.50	102.73	103.18
7	34.10	0.00	101.63	100.49	34.20	0.00	100.67	101.51	115.00	0.00	102.59	104.66	103.05	103.07
8	47.20	0.00	101.98	100.72	50.00	0.00	100.46	102.05	118.90	0.00	102.64	104.68	102.81	103.15
9	48.40	0.00	102.10	100.92	49.90	0.00	100.38	102.02	119.20	0.00	102.94	104.76	103.02	103.19
10	55.60	.20	102.35	101.18	56.20	0.00	100.69	102.59	119.30	0.00	103.64	104.83	103.35	103.44
11	55.70	0.00	102.46	101.56	58.60	0.00	100.87	102.41	119.50	0.00	104.40	104.94	103.55	103.72
12	55.50	0.00	101.52	102.26	58.10	0.00	101.19	102.53	119.50	0.00	105.38	105.12	103.86	104.19
13	55.50	0.00	101.56	102.00	57.10	0.00	101.46	103.10	118.40	0.00	106.04	105.24	104.15	104.73
14	55.50	0.00	101.67	102.09	58.60	0.00	101.42	103.24	101.80	0.00	106.73	105.55	104.32	105.07
15	56.60	0.00	101.74	102.30	57.10	0.00	101.45	103.09	93.90	0.00	106.86	105.57	104.47	105.53
16	55.50	0.00	101.83	102.05	57.20	0.00	101.56	103.19	94.10	0.00	106.99	105.66	104.69	105.89
17	55.40	0.00	102.05	101.97	57.20	0.00	101.49	103.15	99.40	0.00	107.08	105.78	104.64	105.97
18	57.00	0.00	102.42	102.30	54.40	0.00	101.44	103.04	121.80	0.00	105.69	105.86	104.60	106.17
19	61.70	0.00	102.73	102.03	53.90	0.00	101.36	102.96	127.70	0.00	104.52	105.96	104.47	106.08
20	63.20	0.00	102.92	101.87	53.90	0.00	101.52	102.84	129.00	0.00	104.13	105.93	104.38	105.99
21	62.30	0.00	102.90	101.72	54.00	0.00	101.51	102.68	145.80	0.00	104.09	105.83	104.22	105.83
22	66.00	0.00	102.86	101.69	57.50	0.00	101.47	102.68	148.50	0.00	104.08	105.78	104.15	105.71
23	40.90	0.00	102.85	101.54	44.40	0.00	101.04	102.47	135.00	0.00	106.61	105.78	104.19	105.50
24	18.30	0.00	102.89	101.69	24.50	0.00	100.95	102.50	91.40	0.00	106.51	105.68	104.06	105.50

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	DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.		
1	1.40	0.00	104.41	100.78	100.98	099.99	14.20	0.00	099.67	100.24	21.70	0.00	101.27	100.65		
2	1.40	0.00	104.48	100.74	100.84	099.77	14.10	0.00	099.36	099.96	13.50	0.00	101.07	100.64		
3	1.40	0.00	104.73	100.71	100.80	099.64	14.20	0.00	099.20	099.65	16.60	0.00	101.20	100.44		
4	1.40	0.00	104.66	100.55	100.57	099.45	14.20	0.00	098.86	099.59	13.40	0.00	101.03	100.41		
5	1.50	0.00	104.59	100.36	100.39	099.28	14.20	0.00	098.95	099.68	15.10	0.00	100.99	100.37		
6	1.40	0.00	104.67	100.32	100.35	099.08	20.70	0.00	099.08	100.01	22.70	0.00	100.93	100.30		
7	1.40	0.00	104.65	100.28	100.22	099.16	26.50	0.00	099.27	099.72	40.00	0.00	101.19	100.95		
8	1.40	0.00	104.76	100.20	100.15	099.24	47.20	0.00	099.77	100.21	52.10	0.00	101.08	101.67		
9	1.40	0.00	105.28	100.44	100.26	099.48	47.00	0.00	099.87	100.31	49.40	0.00	100.89	101.20		
10	1.50	0.00	105.24	100.80	100.32	100.13	47.00	0.00	100.00	100.28	48.40	0.00	101.00	100.94		
11	1.40	0.00	105.50	101.69	100.47	101.07	47.00	0.00	100.53	100.28	48.10	0.00	101.16	100.86		
12	1.40	0.00	106.12	102.70	101.14	102.23	47.40	0.00	100.65	100.28	49.00	0.00	100.92	100.89		
13	1.40	0.00	106.43	103.59	101.56	103.54	48.40	0.00	100.73	100.39	48.80	0.00	100.81	100.95		
14	1.50	0.00	106.21	104.21	101.97	104.25	47.50	0.00	100.69	100.49	49.30	0.00	100.96	101.05		
15	1.40	0.00	106.44	104.53	102.07	104.08	47.20	0.00	100.52	100.56	62.50	0.00	100.91	101.13		
16	1.40	0.00	106.48	104.63	102.49	104.54	41.10	0.00	100.45	100.63	49.70	0.00	100.83	101.06		
17	1.50	0.00	106.57	104.38	102.55	104.03	40.90	0.00	100.60	100.55	49.30	0.00	100.92	101.12		
18	1.40	0.00	106.19	103.70	102.58	103.80	42.90	0.00	100.50	100.57	50.00	0.00	100.85	100.98		
19	1.50	0.00	106.57	102.92	102.27	103.07	48.10	0.00	100.39	100.44	49.40	0.00	100.71	101.00		
20	1.40	0.00	104.91	102.29	101.94	102.28	47.60	0.00	100.24	100.29	51.90	0.00	100.96	100.88		
21	1.40	0.00	104.45	101.87	101.38	101.57	38.90	0.00	100.08	100.31	32.70	0.00	100.98	100.72		
22	1.40	0.00	104.43	101.44	101.01	101.03	37.20	0.00	099.93	100.28	29.60	0.00	100.92	100.68		
23	1.40	0.00	104.30	101.29	101.08	100.64	35.20	0.00	099.83	100.13	30.90	0.00	100.94	100.62		
24	1.50	0.00	104.39	101.14	100.93	100.21	14.90	0.00	099.57	099.76	15.70	0.00	101.06	100.60		
	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT		
1	27.60	0.00	101.02	100.07	28.90	0.00	099.74	101.29	62.20	0.00	102.99	103.76	102.40	101.97		
2	26.10	0.00	101.00	100.05	22.60	0.00	099.68	101.09	61.00	0.00	102.80	103.73	102.38	101.82		
3	23.90	0.00	100.96	099.89	20.80	0.00	099.82	101.08	76.70	0.00	102.80	103.69	102.47	101.76		
4	18.50	0.00	100.90	099.83	18.50	0.00	099.66	100.93	89.60	0.00	102.75	103.51	102.58	101.47		
5	18.50	0.00	100.84	100.14	18.70	0.00	099.17	100.87	128.00	0.00	102.71	103.36	102.66	101.27		
6	21.50	0.00	100.81	100.00	22.90	0.00	099.16	101.00	147.00	0.00	102.68	103.45	102.62	101.22		
7	44.30	0.00	100.77	099.96	37.20	0.00	099.37	100.93	161.10	0.00	102.67	103.44	102.48	101.08		
8	47.80	0.00	100.72	100.26	47.10	0.00	099.71	101.15	148.80	0.00	102.60	103.21	102.40	101.04		
9	56.90	0.00	100.70	100.07	56.30	0.00	099.82	101.19	144.00	0.00	102.66	103.19	102.33	100.97		
10	58.40	0.00	100.65	100.71	57.10	0.00	100.20	101.43	134.30	0.00	103.06	103.04	102.30	101.25		
11	56.90	0.00	100.65	100.45	57.10	0.00	100.01	101.29	338.70	0.00	103.69	103.16	102.32	101.52		
12	59.40	0.00	100.73	101.27	61.50	0.00	100.09	101.40	141.10	0.00	104.92	103.07	102.38	101.98		
13	58.40	0.00	100.81	101.54	60.70	0.00	101.59	101.46	149.50	0.00	106.17	103.18	102.57	102.44		
14	58.50	0.00	100.89	101.42	62.20	0.00	104.04	101.71	148.50	0.00	105.74	103.23	102.69	102.92		
15	57.90	0.00	100.97	101.45	60.10	0.00	104.52	101.79	139.70	0.00	106.22	103.44	102.77	103.57		
16	54.20	0.00	101.69	101.51	54.20	0.00	102.01	101.95	135.10	0.00	106.94	103.66	102.84	104.02		
17	53.60	0.00	101.05	101.25	53.80	0.00	100.88	102.07	125.10	0.00	107.45	103.54	102.89	104.47		
18	46.00	0.00	101.52	101.01	47.00	0.00	100.11	101.94	102.70	0.00	106.88	103.89	102.80	104.61		
19	45.40	0.00	101.15	100.78	40.40	0.00	099.89	101.82	93.30	0.00	105.05	104.30	102.87	104.65		
20	45.90	0.00	100.97	100.60	43.70	0.00	100.14	101.69	119.00	0.00	105.63	104.18	102.55	104.55		
21	27.60	0.00	101.64	100.19	25.20	0.00	100.38	101.51	120.80	0.00	104.05	104.16	102.39	104.42		
22	26.70	0.00	101.48	100.20	25.00	0.00	100.37	101.41	113.10	0.00	103.63	104.02	102.41	104.52		
23	26.80	0.00	101.88	100.29	24.90	0.00	099.99	101.44	123.10	0.00	104.91	103.98	102.25	104.38		
24	14.90	0.00	101.49	100.15	13.60	0.00	100.11	101.29	82.60	0.00	103.89	104.15	102.13	104.38		

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	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR :	TOTAL DISCH. KCFS	SPIILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPIILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPIILL KCFS	GAS FB	%SAT. TAILW.
1 :	1.50	0.00	103.59	100.41	100.46	099.84	14.10	0.00	100.92	100.98	16.00	0.00	102.44	101.94
2 :	1.50	0.00	103.57	100.41	100.45	099.84	14.10	0.00	100.89	100.98	12.70	0.00	102.32	101.98
3 :	1.50	0.00	103.55	100.38	100.45	099.81	16.20	0.00	101.29	100.97	12.90	0.00	102.28	101.86
4 :	1.50	0.00	103.67	100.34	100.23	099.81	12.80	0.00	101.01	101.06	12.80	0.00	102.29	101.81
5 :	1.50	0.00	103.63	100.30	100.19	099.77	26.70	0.00	101.12	101.56	18.80	0.00	102.21	101.75
6 :	1.50	0.00	103.84	100.24	100.11	099.74	37.80	0.00	101.05	101.54	38.50	0.00	102.33	101.70
7 :	1.50	0.00	103.79	100.22	100.08	099.53	41.60	0.00	101.00	101.32	39.90	0.00	102.25	101.65
8 :	1.50	0.00	103.85	100.45	100.11	099.74	48.20	0.00	100.93	101.26	55.30	0.00	102.21	101.74
9 :	1.50	0.00	103.93	100.70	100.14	100.11	50.90	0.00	101.01	101.19	61.60	0.00	102.15	101.64
10 :	1.50	0.00	104.17	101.20	100.38	100.86	54.30	0.00	100.93	101.13	62.40	0.00	102.05	101.56
11 :	1.40	0.00	104.58	101.87	100.79	101.50	56.20	0.00	100.99	101.06	66.10	0.00	101.82	101.49
12 :	1.40	0.00	105.39	102.57	101.37	101.89	53.20	0.00	100.95	101.00	57.70	0.00	101.96	101.49
13 :	1.40	0.00	105.93	102.72	101.67	102.56	50.30	0.00	100.95	101.02	54.50	0.00	101.77	101.45
14 :	1.40	0.00	106.80	103.65	102.09	102.98	50.50	0.00	100.81	100.99	54.20	0.00	101.78	101.44
15 :	1.50	0.00	107.05	103.85	102.33	103.64	50.60	0.00	100.78	101.10	58.30	0.00	101.76	101.43
16 :	1.40	0.00	106.78	103.54	102.32	103.48	50.10	0.00	100.94	101.10	54.10	0.00	101.73	101.41
17 :	1.40	0.00	106.58	103.27	102.40	102.46	47.20	0.00	100.76	100.92	52.40	0.00	101.69	101.24
18 :	1.40	0.00	106.07	102.78	102.27	101.84	40.10	0.00	100.71	100.91	52.20	0.00	101.89	101.17
19 :	1.40	0.00	106.58	102.35	102.11	101.57	39.90	0.00	100.58	100.59	45.60	0.00	102.02	101.14
20 :	1.50	0.00	105.00	101.79	101.77	101.37	40.20	0.00	100.47	100.55	44.90	0.00	101.83	101.12
21 :	1.40	0.00	104.54	101.60	101.57	100.94	37.80	0.00	100.31	100.63	48.30	0.00	101.85	101.05
22 :	1.40	0.00	104.21	101.28	101.34	100.63	37.00	0.00	100.24	100.49	44.30	0.00	101.65	101.05
23 :	1.40	0.00	104.21	101.14	101.26	100.32	16.40	0.00	099.61	099.96	22.90	0.00	101.36	100.89
24 :	1.50	0.00	104.32	100.98	101.23	100.15	16.10	0.00	100.00	100.20	22.00	0.00	101.30	100.82
	LOWER MONUMENTAL			ICE HARBOR			MCNARY			PASCO				
HOUR :	TOTAL DISCH KCFS	SPIILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPIILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPIILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1 :	14.00	0.00	102.66	101.76	12.80	0.00	101.34	102.66	61.90	0.00	104.20	104.05	103.49	103.27
2 :	15.60	0.00	102.62	101.60	12.70	0.00	101.17	102.51	58.10	0.00	104.18	103.92	103.48	103.08
3 :	13.80	0.00	102.65	101.47	14.30	0.00	101.17	102.35	62.00	0.00	104.00	103.85	103.56	102.95
4 :	15.20	0.00	102.65	101.73	12.60	0.00	100.99	102.34	73.60	0.00	104.00	103.79	103.40	102.78
5 :	14.20	0.00	102.46	101.43	14.10	0.00	101.47	102.41	80.10	0.00	103.93	103.78	103.58	102.59
6 :	30.90	0.00	102.42	101.61	14.20	0.00	101.03	102.37	101.80	0.00	103.74	103.72	103.55	102.31
7 :	41.70	0.00	102.31	101.56	28.50	0.00	101.01	102.48	112.70	0.00	103.69	103.68	103.47	102.00
8 :	55.80	0.00	102.27	101.50	44.80	0.00	101.23	102.85	118.00	0.00	103.65	103.61	103.35	101.84
9 :	59.30	0.00	102.21	101.58	62.50	0.00	101.06	102.84	126.90	0.00	103.60	103.61	103.29	101.60
10 :	63.20	0.00	101.99	101.54	61.60	0.00	100.96	102.77	141.70	0.00	103.55	103.56	103.38	101.54
11 :	66.10	0.00	101.94	101.35	60.90	0.00	100.92	102.71	144.00	0.00	103.64	103.48	103.47	101.51
12 :	58.70	0.00	101.83	101.59	60.20	0.00	100.90	102.70	139.20	0.00	103.68	103.50	103.60	101.64
13 :	59.70	0.00	101.86	101.61	60.80	0.00	100.99	102.67	143.40	0.00	104.44	103.50	103.73	101.89
14 :	56.50	0.00	101.83	101.58	58.80	0.00	101.14	102.54	143.70	0.00	104.84	103.62	103.70	102.13
15 :	56.90	0.00	101.63	101.73	58.60	0.00	100.96	102.49	141.00	0.00	104.97	103.61	103.58	102.34
16 :	57.00	0.00	101.62	101.58	60.90	0.00	100.78	102.40	128.60	0.00	105.06	103.71	103.41	102.42
17 :	57.50	0.00	101.58	101.58	58.20	0.00	101.06	102.36	126.90	0.00	104.89	103.83	103.34	102.64
18 :	57.80	0.00	101.55	101.21	58.20	0.00	100.83	102.22	130.40	0.00	104.03	103.88	103.33	102.76
19 :	50.10	0.00	101.48	100.90	58.20	0.00	100.82	102.12	127.80	0.00	103.87	103.90	103.16	102.71
20 :	49.80	0.00	101.35	100.66	59.90	0.00	100.78	101.93	129.80	0.00	103.53	103.90	102.95	102.76
21 :	49.90	0.00	101.40	100.62	58.60	0.00	100.55	101.90	129.20	0.00	103.28	103.84	102.98	102.56
22 :	49.30	0.00	101.39	100.42	59.60	0.00	100.22	101.66	116.90	0.00	103.23	103.74	102.64	102.49
23 :	39.70	0.00	101.35	100.22	58.80	0.00	100.07	101.54	88.20	0.00	103.11	103.75	102.64	102.33
24 :	29.50	0.00	101.17	100.15	41.40	0.00	099.91	101.49	61.40	0.00	103.03	103.82	102.46	102.33

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WALLA WALLA DISTRICT HYDRO PROJECTS
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	DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR :	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	
1 :	1.50	0.00	105.72	101.03	101.74	101.42	16.80	0.00	103.12	102.14	16.70	0.00	103.41	102.93	
2 :	1.50	0.00	105.60	100.93	101.66	101.16	14.30	0.00	102.87	102.26	13.90	0.00	103.43	102.83	
3 :	1.50	0.00	105.65	100.79	101.52	101.05	14.40	0.00	102.90	102.41	20.30	0.00	103.48	102.82	
4 :	1.50	0.00	105.57	100.67	101.44	100.82	14.90	0.00	103.02	102.29	15.20	0.00	103.49	102.85	
5 :	1.50	0.00	105.54	100.64	101.29	100.64	27.00	0.00	103.15	102.68	25.30	0.00	103.48	102.82	
6 :	1.50	0.00	105.41	100.48	101.19	100.55	31.70	0.00	103.05	102.97	30.50	0.00	103.42	102.82	
7 :	1.50	0.00	105.41	100.48	101.07	100.37	31.00	0.00	102.98	102.95	31.20	0.00	103.60	102.75	
8 :	1.50	0.00	105.44	100.37	100.92	100.38	42.10	0.00	102.90	102.78	41.50	0.00	103.54	102.89	
9 :	1.50	0.00	105.72	100.46	100.86	100.37	43.30	0.00	102.85	102.64	45.90	0.00	103.39	102.75	
10 :	1.50	0.00	105.78	100.52	100.86	100.60	45.50	0.00	102.78	102.84	46.90	0.00	103.36	102.70	
11 :	1.50	0.00	105.72	100.93	100.92	100.67	45.70	0.00	102.58	102.52	46.00	0.00	103.24	102.57	
12 :	1.50	0.00	105.95	101.31	101.04	100.90	46.50	0.00	102.58	102.47	46.00	0.00	103.21	102.60	
13 :	1.50	0.00	106.16	101.27	101.11	101.24	48.90	0.00	102.54	102.40	48.40	0.00	103.21	102.60	
14 :	1.50	0.00	106.21	101.47	101.28	101.33	48.60	0.00	102.35	102.24	50.10	0.00	103.14	102.53	
15 :	1.50	0.00	106.28	101.85	101.37	101.74	48.60	0.00	102.26	102.16	53.20	0.00	103.08	102.45	
16 :	1.50	0.00	106.38	102.26	101.46	101.93	51.30	0.00	102.10	102.10	52.70	0.00	103.06	102.42	
17 :	1.50	0.00	106.20	102.12	101.71	102.30	52.10	0.00	102.06	101.98	54.40	0.00	103.06	102.43	
18 :	1.50	0.00	105.56	102.10	101.65	102.00	53.90	0.00	102.03	102.08	52.30	0.00	102.97	102.34	
19 :	1.50	0.00	106.20	101.74	101.42	101.36	54.00	0.00	101.96	101.87	55.40	0.00	102.77	102.27	
20 :	1.50	0.00	104.15	101.31	101.10	100.72	54.10	0.00	101.59	101.76	52.20	0.00	102.74	102.07	
21 :	1.50	0.00	103.66	100.95	100.65	100.37	42.20	0.00	101.39	101.57	51.90	0.00	102.78	102.02	
22 :	1.50	0.00	103.54	100.65	100.56	100.22	31.40	0.00	101.26	101.59	43.10	0.00	102.63	102.02	
23 :	1.50	0.00	103.66	100.50	100.49	100.05	18.70	0.00	101.24	101.16	32.50	0.00	102.48	101.86	
24 :	1.50	0.00	103.63	100.48	100.46	099.86	14.30	0.00	100.93	100.63	24.20	0.00	102.47	101.85	
	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR :	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT	
1 :	28.10	0.00	103.88	103.21	30.50	0.00	102.82	104.31	69.90	0.00	104.74	104.45	104.03	103.83	
2 :	17.10	0.00	103.79	103.75	21.40	0.00	102.76	104.12	72.10	0.00	104.62	104.47	104.15	103.78	
3 :	17.90	0.00	103.64	103.08	20.60	0.00	102.67	104.02	96.30	0.00	104.58	104.42	104.17	103.67	
4 :	18.10	0.00	103.65	102.82	18.10	0.00	102.68	103.97	101.60	0.00	104.58	104.47	104.13	103.48	
5 :	17.50	0.00	103.64	102.63	18.00	0.00	102.23	103.86	102.30	0.00	104.42	104.42	103.96	103.46	
6 :	21.10	0.00	103.58	102.50	21.00	0.00	102.22	103.82	102.90	0.00	104.42	104.40	103.86	103.34	
7 :	31.20	0.00	103.41	102.59	32.30	0.00	102.57	103.77	116.30	0.00	104.37	104.25	103.82	103.27	
8 :	41.20	0.00	103.51	102.70	41.60	0.00	102.69	103.79	111.80	0.00	104.28	104.23	103.82	103.26	
9 :	45.00	0.00	103.38	102.66	42.00	0.00	102.85	103.97	120.20	0.00	104.27	104.23	104.06	103.27	
10 :	45.30	0.00	103.31	102.64	42.00	0.00	102.67	103.87	118.50	0.00	104.33	104.18	104.29	103.46	
11 :	45.30	0.00	103.44	102.57	41.90	0.00	102.44	103.87	111.10	0.00	104.32	104.30	104.52	103.52	
12 :	46.90	0.00	103.24	104.02	42.00	0.00	102.41	103.77	110.10	0.00	104.44	104.12	104.37	103.64	
13 :	46.70	0.00	103.17	103.07	44.30	0.00	102.46	103.75	110.70	0.00	104.56	104.21	104.33	103.85	
14 :	52.80	0.00	103.11	102.97	51.30	0.00	102.30	103.68	126.10	0.00	104.62	104.35	104.55	103.97	
15 :	56.50	0.00	103.07	104.14	50.80	0.00	102.27	103.68	126.20	0.00	104.97	104.32	104.54	104.12	
16 :	55.20	0.00	103.03	103.05	52.90	0.00	102.30	103.54	144.10	0.00	105.12	104.29	104.38	104.41	
17 :	57.70	0.00	103.03	102.64	55.00	0.00	102.41	103.54	145.80	0.00	104.95	104.40	104.37	104.51	
18 :	56.80	0.00	102.85	102.46	56.50	0.00	102.37	103.49	146.60	0.00	104.91	104.37	104.06	104.46	
19 :	56.60	0.00	102.81	102.23	55.00	0.00	101.78	103.25	127.00	0.00	105.03	104.30	104.00	104.38	
20 :	56.60	0.00	102.91	102.07	55.70	0.00	101.67	103.18	127.30	0.00	104.93	104.22	103.79	104.19	
21 :	59.20	0.00	102.88	102.39	54.90	0.00	101.90	102.95	126.60	0.00	104.70	104.16	103.58	103.96	
22 :	55.80	0.00	102.79	101.96	54.50	0.00	102.04	102.98	126.60	0.00	104.64	104.12	103.55	103.84	
23 :	49.30	0.00	102.77	101.92	45.30	0.00	101.94	102.84	114.30	0.00	104.53	104.12	103.53	103.74	
24 :	26.80	0.00	102.67	101.91	30.90	0.00	101.35	102.87	90.70	0.00	104.50	104.06	103.49	103.74	

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WALLA WALLA DISTRICT HYDRO PROJECTS
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HOUR	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
	TOTAL DISCH.	SPILL	GAS %SAT	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH	SPILL	GAS FB	%SAT TAILW.	TOTAL DISCH	SPILL	GAS FB	%SAT. TAILW.
	KCFS	KCFS	TAILW.	%SAT	%SAT	%SAT	KCFS	KCFS			KCFS	KCFS		
1	1.50	0.00	104.80	101.64	101.07	100.37	13.90	0.00	101.43	101.91	12.30	0.00	103.10	102.34
2	1.50	0.00	104.74	101.44	101.03	100.04	17.40	0.00	101.40	101.59	12.10	0.00	102.90	102.14
3	+	+	104.58	101.42	100.90	100.05	+	+	101.40	101.33	+	+	102.75	102.16
4	1.50	0.00	104.55	*****	100.94	099.97	17.40	0.00	101.11	101.34	12.50	0.00	102.75	102.02
5	1.50	0.00	104.66	000.00	100.69	099.80	1.60	0.00	100.93	101.06	12.50	0.00	102.76	102.04
6	1.50	0.00	104.55	101.18	100.71	099.63	20.50	0.00	101.28	100.93	12.60	0.00	102.77	101.89
7	1.50	0.00	104.52	101.18	100.75	099.66	21.10	0.00	101.11	101.16	12.40	0.00	102.57	101.89
8	1.50	0.00	104.67	*****	100.66	099.74	21.10	0.00	100.94	101.28	12.40	0.00	102.58	101.79
9	1.50	0.00	104.98	101.33	100.84	100.47	21.50	0.00	100.94	101.41	12.70	0.00	102.76	101.98
10	1.50	0.00	105.28	101.56	101.33	101.18	36.50	0.00	101.58	101.84	19.10	0.00	102.75	102.01
11	1.50	0.00	105.76	102.09	101.69	102.06	36.60	0.00	101.85	102.03	19.30	0.00	102.79	102.34
12	1.50	0.00	106.52	102.68	102.05	103.05	36.50	0.00	101.93	102.11	19.20	0.00	102.84	102.52
13	1.50	0.00	107.06	103.51	102.49	103.82	36.50	0.00	102.15	102.15	22.20	0.00	102.96	102.63
14	1.50	0.00	107.14	103.89	102.63	104.33	36.40	0.00	102.57	102.36	22.10	0.00	102.85	102.67
15	1.50	0.00	107.23	104.43	102.91	104.79	37.00	0.00	102.54	102.43	19.10	0.00	102.95	102.75
16	1.50	0.00	107.32	104.02	102.96	104.70	36.40	0.00	102.45	102.35	22.10	0.00	103.01	102.94
17	1.50	0.00	106.74	103.64	102.80	104.46	38.40	0.00	102.31	102.52	20.10	0.00	103.08	103.00
18	1.50	0.00	106.38	103.29	102.73	104.12	42.70	0.00	102.56	102.58	37.80	0.00	103.13	103.05
19	1.50	0.00	106.74	102.74	102.45	103.47	51.70	0.00	102.59	102.50	55.50	0.00	103.29	103.11
20	1.50	0.00	105.45	102.24	102.20	102.95	53.80	0.00	102.62	102.40	52.90	0.00	103.33	103.00
21	1.50	0.00	105.08	101.79	101.98	102.44	47.80	0.00	102.67	102.60	47.80	0.00	103.39	102.92
22	1.50	0.00	104.99	101.56	101.83	102.07	46.80	0.00	102.62	102.64	48.40	0.00	103.46	103.01
23	1.50	0.00	105.32	101.32	101.78	101.80	41.20	0.00	102.92	102.54	40.90	0.00	103.49	102.86
24	1.50	0.00	105.67	101.13	101.82	101.61	28.60	0.00	103.12	102.49	27.90	0.00	103.50	102.90
LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR	TOTAL DISCH	SPILL	GAS FB	%SAT. TAILW.	TOTAL DISCH	SPILL	GAS FB	%SAT. TAILW.	TOTAL DISCH	SPILL	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
	KCFS	KCFS			KCFS	KCFS			KCFS	KCFS				
1	13.70	0.00	102.98	101.87	19.90	0.00	102.66	103.83	77.30	0.00	103.52	104.79	103.67	102.48
2	13.70	0.00	102.74	101.77	12.70	0.00	102.59	103.67	81.00	0.00	103.45	104.61	103.38	102.16
3	+	+	102.80	101.56	+	+	102.37	103.45	+	+	103.50	104.55	103.57	102.07
4	13.80	0.00	102.82	101.32	10.90	0.00	102.27	103.37	81.70	0.00	103.49	104.44	103.61	101.96
5	13.90	0.00	102.82	101.56	11.70	0.00	102.33	103.24	82.00	0.00	103.71	104.50	103.62	101.85
6	14.10	0.00	102.83	101.56	11.30	0.00	102.04	103.25	87.90	0.00	103.57	104.49	103.40	101.74
7	13.90	0.00	102.79	101.67	11.50	0.00	102.13	103.22	96.00	0.00	103.53	104.32	103.21	101.51
8	13.90	0.00	102.63	101.81	10.10	0.00	102.12	103.36	103.60	0.00	103.56	104.34	103.21	101.50
9	14.00	0.00	102.64	102.17	11.90	0.00	101.99	103.52	109.00	0.00	103.41	104.22	103.38	101.50
10	20.50	0.00	102.68	102.74	19.60	0.00	102.05	104.55	107.50	0.00	103.83	104.07	103.52	101.69
11	21.20	0.00	102.83	103.62	19.10	0.00	102.20	105.30	104.90	0.00	104.53	104.11	103.63	102.14
12	19.30	0.00	102.86	104.19	18.70	0.00	102.39	105.89	103.90	0.00	104.22	104.30	103.86	102.39
13	20.80	0.00	103.00	104.48	18.80	0.00	102.60	106.28	95.80	0.00	104.01	104.28	104.10	102.94
14	19.30	0.00	103.08	105.33	18.80	0.00	102.56	106.70	94.10	0.00	104.17	104.53	104.20	103.46
15	19.30	0.00	103.19	104.41	18.80	0.00	102.81	106.17	81.50	0.00	104.47	104.60	104.30	104.08
16	21.20	0.00	103.40	104.11	18.90	0.00	102.90	106.13	81.80	0.00	104.64	104.68	104.26	104.40
17	19.90	0.00	103.72	104.01	19.90	0.00	102.78	106.08	86.40	0.00	104.77	104.81	104.18	104.64
18	37.40	0.00	103.74	103.31	37.00	0.00	103.03	105.57	94.40	0.00	104.84	104.83	104.25	104.94
19	51.80	0.00	103.64	102.98	43.20	0.00	102.91	105.33	79.50	0.00	104.91	104.77	104.16	104.88
20	51.80	0.00	103.82	102.78	43.70	0.00	102.95	104.83	90.70	0.00	104.91	104.74	103.92	104.89
21	48.30	0.00	103.73	102.71	50.30	0.00	102.96	104.73	81.40	0.00	104.94	104.65	103.98	104.85
22	47.20	0.00	103.88	102.58	50.70	0.00	103.14	104.57	79.00	0.00	104.82	104.64	103.83	104.43
23	42.50	0.00	103.92	102.71	50.50	0.00	102.90	104.52	76.40	0.00	104.86	104.56	103.87	104.32
24	27.80	0.00	104.00	102.93	39.10	0.00	102.96	104.43	70.40	0.00	104.77	104.45	104.03	104.32

31 MAR 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

31 MAR 2001

	DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR :	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	
1 :	1.50	0.00	104.94	101.32	100.75	100.15	13.00	0.00	099.61	101.17	13.10	0.00	102.53	101.74	
2 :	1.50	0.00	105.09	101.22	100.70	099.99	13.20	0.00	100.39	100.91	13.40	0.00	102.49	101.73	
3 :	1.50	0.00	105.33	101.35	100.61	099.91	13.20	0.00	100.56	100.64	13.10	0.00	102.70	101.78	
4 :	1.50	0.00	105.35	101.24	100.48	099.74	13.50	0.00	100.75	100.40	14.70	0.00	102.75	101.73	
5 :	1.50	0.00	105.24	101.25	100.40	099.69	13.20	0.00	101.09	100.21	14.60	0.00	102.82	101.76	
6 :	1.50	0.00	104.88	101.32	100.30	099.54	13.50	0.00	101.15	100.41	13.90	0.00	102.72	101.81	
7 :	1.50	0.00	104.79	101.33	100.19	099.72	30.30	0.00	101.29	101.48	35.50	0.00	102.75	101.99	
8 :	1.50	0.00	105.07	101.40	100.16	099.91	40.40	0.00	101.05	101.63	43.40	0.00	102.93	102.13	
9 :	1.50	0.00	105.26	101.46	100.36	100.22	40.30	0.00	100.95	101.28	43.80	0.00	103.01	102.35	
10 :	1.50	0.00	105.60	101.66	100.65	100.71	40.40	0.00	101.18	101.23	42.50	0.00	103.08	102.44	
11 :	1.50	0.00	106.11	102.03	100.87	101.24	47.10	0.00	101.51	101.35	42.70	0.00	103.17	102.51	
12 :	1.50	0.00	106.25	102.31	101.16	101.73	53.60	0.00	101.91	101.45	50.10	0.00	103.38	102.59	
13 :	1.50	0.00	106.22	102.67	101.40	102.27	55.30	0.00	101.99	101.53	56.40	0.00	103.62	102.70	
14 :	1.50	0.00	106.50	102.78	101.66	102.64	54.50	0.00	102.28	101.76	56.60	0.00	103.69	102.98	
15 :	1.50	0.00	106.45	102.74	101.68	102.53	54.50	0.00	102.32	101.83	56.70	0.00	103.81	103.05	
16 :	1.50	0.00	106.49	102.78	101.63	102.34	54.50	0.00	102.23	102.06	57.00	0.00	103.96	103.07	
17 :	1.50	0.00	106.34	102.56	101.73	102.09	54.80	0.00	102.11	102.07	57.10	0.00	103.85	103.07	
18 :	1.50	0.00	?UNDEF	?UNDEF	?UNDEF	?UNDEF	62.50	0.00	?UNDEF	?UNDEF	71.70	0.00	?UNDEF	?UNDEF	
19 :	1.50	0.00	106.34	?UNDEF	?UNDEF	?UNDEF	64.50	0.00	?UNDEF	?UNDEF	71.20	0.00	?UNDEF	?UNDEF	
20 :	1.50	0.00	105.23	102.24	101.48	101.45	63.30	0.00	102.38	102.04	71.40	0.00	103.77	102.99	
21 :	1.50	0.00	105.13	102.12	101.29	101.21	63.60	0.00	102.41	102.01	71.70	0.00	103.77	102.86	
22 :	1.50	0.00	105.05	102.07	101.37	100.96	55.40	0.00	102.25	102.01	70.10	0.00	103.43	102.70	
23 :	1.50	0.00	105.06	101.74	101.33	100.68	33.50	0.00	102.15	101.86	37.50	0.00	103.43	102.68	
24 :	1.50	0.00	105.03	101.77	101.32	100.56	17.00	0.00	102.00	101.64	14.20	0.00	103.21	102.48	
	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR :	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT	
1 :	13.90	0.00	103.81	101.52	11.10	0.00	102.45	103.61	66.20	0.00	103.46	106.45	103.51	103.67	
2 :	13.90	0.00	103.47	101.56	10.60	0.00	102.30	103.39	60.50	0.00	103.48	106.26	103.55	103.58	
3 :	13.90	0.00	103.35	101.59	10.60	0.00	102.58	103.38	68.70	0.00	103.41	106.08	103.88	103.53	
4 :	14.00	0.00	103.30	101.54	10.80	0.00	102.45	103.42	70.00	0.00	103.45	106.36	103.92	103.43	
5 :	14.20	0.00	103.25	101.60	10.60	0.00	102.52	103.34	95.30	0.00	103.45	106.21	104.05	103.53	
6 :	14.50	0.00	103.10	101.65	11.20	0.00	102.46	103.40	111.80	0.00	103.36	106.13	104.21	103.59	
7 :	28.70	0.00	103.17	102.10	24.30	0.00	102.79	103.73	121.30	0.00	103.65	106.17	104.03	103.54	
8 :	41.50	0.00	103.36	102.34	34.20	0.00	102.77	104.27	124.40	0.00	103.70	106.20	104.16	103.52	
9 :	42.90	0.00	103.43	102.42	34.80	0.00	102.70	104.66	122.90	0.00	103.76	106.15	104.23	103.58	
10 :	41.80	0.00	103.52	102.59	35.70	0.00	102.66	104.75	119.70	0.00	103.78	106.07	104.54	103.80	
11 :	41.70	0.00	103.19	102.85	41.70	0.00	103.15	104.83	118.50	0.00	104.25	106.07	104.72	104.01	
12 :	49.30	0.00	103.48	102.97	48.70	0.00	103.50	104.90	118.70	0.00	105.00	106.05	104.67	104.19	
13 :	50.50	0.00	103.96	102.96	49.30	0.00	103.33	104.96	120.50	0.00	105.64	105.99	104.63	104.60	
14 :	55.40	0.00	103.39	103.37	50.80	0.00	103.37	105.07	116.80	0.00	105.98	106.09	104.60	104.83	
15 :	55.80	0.00	103.31	102.95	55.80	0.00	103.38	104.93	117.10	0.00	105.95	105.75	104.63	104.86	
16 :	55.80	0.00	103.17	102.89	57.40	0.00	103.57	104.95	118.90	0.00	104.95	105.75	104.65	104.77	
17 :	56.50	0.00	103.12	102.76	58.50	0.00	103.54	104.98	120.90	0.00	104.42	105.64	104.49	104.82	
18 :	69.10	0.00	?UNDEF	?UNDEF	71.00	0.00	?UNDEF	?UNDEF	135.40	0.00	?UNDEF	?UNDEF	?UNDEF	?UNDEF	
19 :	71.20	0.00	?UNDEF	?UNDEF	72.60	0.00	?UNDEF	?UNDEF	138.60	0.00	?UNDEF	?UNDEF	?UNDEF	?UNDEF	
20 :	69.60	0.00	103.30	102.76	72.50	0.00	103.95	104.84	140.00	0.00	104.25	105.51	103.97	104.27	
21 :	68.00	0.00	103.23	102.73	72.50	0.00	103.67	104.80	137.90	0.00	104.07	105.36	103.73	103.79	
22 :	70.20	0.00	103.19	102.53	70.80	0.00	103.37	104.47	117.30	0.00	103.80	105.09	103.61	103.47	
23 :	48.10	0.00	103.16	102.47	54.60	0.00	103.30	104.25	94.00	0.00	103.64	104.94	103.68	102.98	
24 :	31.20	0.00	103.06	102.23	35.20	0.00	103.17	104.05	89.20	0.00	103.53	104.84	103.62	102.98	

30 MAR 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

30 MAR 2001

	DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR :	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	
1 :	1.50	0.00	105.75	101.85	101.29	100.62	14.40	0.00	101.20	101.82	13.90	0.00	103.13	102.48	
2 :	1.50	0.00	105.80	101.83	101.08	100.43	13.00	0.00	101.01	101.54	12.70	0.00	103.09	102.44	
3 :	1.50	0.00	105.88	101.65	100.93	100.19	13.10	0.00	101.01	101.59	12.60	0.00	102.94	102.31	
4 :	1.50	0.00	105.55	101.49	100.68	099.99	20.40	0.00	100.56	101.31	12.60	0.00	103.03	102.25	
5 :	1.50	0.00	105.16	101.39	100.45	099.73	32.00	0.00	100.60	101.32	13.70	0.00	102.80	102.08	
6 :	1.50	0.00	104.96	101.31	100.19	099.66	41.90	0.00	100.62	101.35	35.30	0.00	102.83	102.09	
7 :	1.50	0.00	105.02	101.38	100.18	099.72	53.80	0.00	100.59	101.19	54.70	0.00	102.89	102.15	
8 :	1.50	0.00	105.40	101.43	100.24	100.20	54.50	0.00	100.80	101.12	55.70	0.00	102.82	102.07	
9 :	1.50	0.00	105.79	101.83	100.63	100.82	54.70	0.00	100.99	101.05	60.80	0.00	102.68	102.10	
10 :	1.50	0.00	106.30	102.06	101.19	101.70	55.00	0.00	100.92	101.11	61.20	0.00	102.70	102.18	
11 :	1.50	0.00	106.80	102.42	101.63	102.62	59.60	0.00	101.19	101.27	65.50	0.00	102.50	102.22	
12 :	1.50	0.00	107.23	102.54	102.08	103.43	61.10	0.00	101.06	101.27	65.50	0.00	102.48	102.31	
13 :	1.50	0.00	107.35	102.69	102.35	103.65	60.00	0.00	101.08	101.31	63.30	0.00	102.50	102.51	
14 :	1.50	0.00	107.31	102.93	102.76	103.81	60.10	0.00	101.11	101.31	64.40	0.00	102.58	103.04	
15 :	1.50	0.00	106.87	103.08	102.74	104.09	60.20	0.00	100.95	101.13	63.20	0.00	102.59	102.73	
16 :	1.50	0.00	106.48	103.17	102.63	103.94	60.30	0.00	100.96	100.99	63.20	0.00	102.59	102.52	
17 :	1.50	0.00	106.17	102.97	102.41	103.67	60.30	0.00	100.99	101.00	63.00	0.00	102.59	102.40	
18 :	1.50	0.00	105.63	102.50	102.16	103.00	59.90	0.00	100.84	100.91	62.60	0.00	102.59	102.27	
19 :	1.50	0.00	106.17	102.08	101.70	102.07	58.00	0.00	100.80	100.72	62.80	0.00	102.49	102.10	
20 :	1.50	0.00	104.98	101.73	101.37	101.45	42.40	0.00	100.49	100.52	63.40	0.00	102.46	101.95	
21 :	1.50	0.00	104.83	101.44	101.22	101.00	41.70	0.00	100.21	100.53	63.70	0.00	102.46	101.78	
22 :	1.50	0.00	104.83	101.46	101.01	100.80	43.00	0.00	100.40	100.57	42.90	0.00	102.47	101.82	
23 :	1.50	0.00	104.83	101.33	100.91	100.52	24.20	0.00	100.00	100.57	21.70	0.00	102.46	101.83	
24 :	1.50	0.00	104.98	101.30	100.81	100.38	15.50	0.00	099.99	100.87	14.10	0.00	102.31	101.73	
	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR :	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT	
1 :	13.60	0.00	102.83	102.14	12.10	0.00	102.85	103.89	65.50	0.00	104.05	103.75	103.69	102.79	
2 :	13.60	0.00	102.75	102.07	11.20	0.00	102.69	103.62	66.90	0.00	103.98	103.71	103.58	102.60	
3 :	13.70	0.00	102.75	101.94	12.80	0.00	102.68	103.48	74.40	0.00	104.06	103.80	103.24	102.45	
4 :	13.70	0.00	102.74	101.79	11.20	0.00	102.51	103.39	80.60	0.00	104.21	103.80	103.07	102.42	
5 :	14.10	0.00	102.75	101.83	10.10	0.00	102.09	103.17	100.30	0.00	104.07	103.52	102.95	102.16	
6 :	21.50	0.00	102.59	101.84	11.10	0.00	101.90	103.13	119.80	0.00	103.74	103.45	102.92	102.07	
7 :	51.50	0.00	102.48	101.99	29.70	0.00	101.95	103.52	151.70	0.00	103.64	103.40	103.09	102.00	
8 :	55.20	0.00	102.41	102.08	46.10	0.00	102.30	104.13	155.20	0.00	103.72	103.61	103.02	101.91	
9 :	61.60	0.00	102.30	102.28	63.00	0.00	102.60	104.28	151.80	0.00	103.89	103.53	102.94	101.96	
10 :	63.60	0.00	102.30	102.42	64.50	0.00	102.55	104.07	137.60	0.00	104.35	103.59	103.24	102.33	
11 :	68.70	0.00	102.66	102.46	70.90	0.00	102.64	104.02	135.90	0.00	104.45	103.84	103.37	102.56	
12 :	69.50	0.00	103.59	102.49	69.00	0.00	106.36	104.20	136.80	0.00	105.58	104.28	103.67	102.87	
13 :	76.10	0.00	104.03	102.82	75.30	0.00	106.66	104.51	136.60	0.00	107.07	105.85	103.55	103.26	
14 :	75.40	0.00	102.30	102.61	77.10	0.00	105.07	104.36	142.20	0.00	107.19	107.69	103.59	103.70	
15 :	75.30	0.00	102.30	102.63	75.70	0.00	103.73	104.34	140.20	0.00	107.54	106.20	103.59	104.09	
16 :	77.10	0.00	102.29	102.61	75.80	0.00	103.26	104.18	141.30	0.00	107.53	106.74	103.82	104.45	
17 :	75.30	0.00	103.27	102.35	75.70	0.00	103.00	104.09	141.20	0.00	107.23	106.72	103.82	104.61	
18 :	75.60	0.00	104.49	102.17	75.70	0.00	102.96	103.99	143.20	0.00	106.88	106.62	103.73	104.61	
19 :	75.80	0.00	104.23	101.95	75.60	0.00	103.10	104.02	154.10	0.00	105.86	106.82	103.71	104.48	
20 :	75.70	0.00	104.58	102.24	75.70	0.00	102.90	103.84	146.70	0.00	105.32	107.02	103.67	104.29	
21 :	77.00	0.00	104.02	102.08	78.80	0.00	102.81	103.73	141.90	0.00	104.75	106.10	103.66	104.33	
22 :	60.30	0.00	104.77	102.13	60.50	0.00	102.59	103.73	128.70	0.00	103.98	106.31	103.54	104.22	
23 :	40.00	0.00	104.19	101.84	42.70	0.00	102.06	103.77	97.40	0.00	103.72	106.26	103.57	104.07	
24 :	15.10	0.00	103.85	101.57	25.40	0.00	102.25	103.68	75.30	0.00	103.51	106.28	103.48	104.07	

29 MAR 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

29 MAR 2001

	DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR :	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	
1 :	1.50	0.00	105.52	101.55	101.06	100.53	13.40	0.00	102.58	102.62	13.80	0.00	103.24	102.61	
2 :	1.50	0.00	105.33	101.36	101.00	100.31	12.80	0.00	102.52	102.43	13.30	0.00	103.10	102.58	
3 :	1.50	0.00	105.26	101.29	100.85	100.08	13.00	0.00	102.39	102.11	15.10	0.00	103.20	102.41	
4 :	1.50	0.00	105.11	101.29	100.69	099.93	24.80	0.00	102.27	102.20	16.20	0.00	103.12	102.34	
5 :	1.50	0.00	104.89	101.20	100.59	099.76	26.30	0.00	101.84	102.14	26.60	0.00	103.13	102.33	
6 :	1.50	0.00	104.83	101.05	100.43	099.70	42.10	0.00	102.08	102.54	43.20	0.00	103.28	102.46	
7 :	1.50	0.00	104.96	101.17	100.39	099.70	42.00	0.00	101.96	102.42	43.90	0.00	103.08	102.61	
8 :	1.50	0.00	105.23	101.35	100.51	100.28	43.80	0.00	101.92	102.36	45.80	0.00	103.17	102.54	
9 :	1.50	0.00	105.77	101.75	100.78	100.90	44.00	0.00	102.08	102.40	45.80	0.00	103.04	102.55	
10 :	1.50	0.00	106.12	102.18	101.27	101.91	44.00	0.00	102.40	102.43	46.10	0.00	103.24	102.59	
11 :	1.50	0.00	106.62	102.66	101.96	102.62	46.70	0.00	102.63	102.66	55.10	0.00	103.32	102.80	
12 :	1.50	0.00	107.38	103.34	102.42	103.57	46.40	0.00	102.99	102.76	57.90	0.00	103.38	102.98	
13 :	1.50	0.00	108.28	103.85	102.79	104.14	46.70	0.00	102.78	102.84	57.30	0.00	103.49	103.12	
14 :	1.50	0.00	108.49	104.06	102.82	104.25	46.60	0.00	102.72	102.77	57.00	0.00	103.55	103.08	
15 :	1.50	0.00	108.05	104.04	102.81	103.87	50.00	0.00	102.62	102.86	56.60	0.00	103.63	103.18	
16 :	1.50	0.00	107.28	103.60	102.61	103.43	47.70	0.00	102.54	102.74	56.10	0.00	103.63	103.21	
17 :	1.50	0.00	106.63	103.24	102.35	103.05	54.40	0.00	102.21	102.68	60.20	0.00	103.73	103.16	
18 :	1.50	0.00	106.26	102.83	102.20	102.66	55.00	0.00	101.99	102.59	57.10	0.00	103.75	103.16	
19 :	1.50	0.00	106.63	102.55	101.95	102.31	55.00	0.00	102.05	102.50	57.20	0.00	103.80	103.24	
20 :	1.50	0.00	106.03	102.26	101.81	101.93	54.70	0.00	102.16	102.34	57.30	0.00	103.68	103.07	
21 :	1.50	0.00	105.85	102.17	101.67	101.65	49.80	0.00	102.13	102.16	56.90	0.00	103.55	102.95	
22 :	1.50	0.00	105.85	102.17	101.61	101.43	47.60	0.00	101.75	102.00	56.50	0.00	103.49	102.77	
23 :	1.50	0.00	105.71	101.99	101.56	101.11	22.60	0.00	101.45	101.92	23.20	0.00	103.44	102.68	
24 :	1.50	0.00	105.67	101.94	101.49	100.94	13.00	0.00	100.98	102.01	14.00	0.00	103.28	102.66	
	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR :	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT	
1 :	13.70	0.00	103.50	102.83	18.30	0.00	102.83	103.79	71.00	0.00	104.87	104.49	103.86	102.92	
2 :	13.30	0.00	103.34	102.36	18.20	0.00	102.81	103.72	70.30	0.00	104.81	104.29	103.71	102.72	
3 :	15.10	0.00	103.27	102.42	15.00	0.00	102.49	103.53	70.40	0.00	104.65	104.11	103.53	102.56	
4 :	13.40	0.00	103.26	102.24	13.20	0.00	102.59	103.49	70.80	0.00	104.49	103.93	103.36	102.37	
5 :	13.90	0.00	103.20	102.52	14.50	0.00	102.73	103.36	91.40	0.00	104.36	104.07	103.23	102.26	
6 :	27.30	0.00	103.23	102.46	24.70	0.00	102.71	103.51	131.50	0.00	104.57	104.02	103.31	102.22	
7 :	44.60	0.00	103.09	102.66	41.20	0.00	102.84	104.00	135.10	0.00	104.46	104.02	103.48	102.08	
8 :	52.70	0.00	103.17	103.03	52.30	0.00	102.82	104.22	137.50	0.00	104.48	104.18	103.89	102.19	
9 :	51.70	0.00	103.19	102.98	53.00	0.00	102.83	104.28	139.30	0.00	104.85	104.18	103.73	102.33	
10 :	51.50	0.00	103.27	103.04	54.90	0.00	102.87	104.41	140.30	0.00	105.22	104.39	103.94	102.60	
11 :	57.00	0.00	103.39	103.40	60.50	0.00	102.99	104.61	140.50	0.00	105.31	104.64	104.02	103.04	
12 :	62.60	0.00	103.30	103.23	58.60	0.00	103.02	104.73	140.10	0.00	105.20	104.80	104.06	103.32	
13 :	61.60	0.00	103.28	103.33	63.90	0.00	103.13	105.03	139.50	0.00	105.46	104.79	104.20	103.59	
14 :	61.90	0.00	103.49	103.33	64.10	0.00	103.37	104.99	140.40	0.00	105.60	104.87	104.05	103.97	
15 :	63.70	0.00	103.43	103.36	63.90	0.00	103.27	104.85	140.20	0.00	105.61	104.77	103.78	104.03	
16 :	55.40	0.00	103.65	103.14	57.50	0.00	103.36	104.85	140.80	0.00	105.54	104.86	103.75	104.26	
17 :	65.20	0.00	103.53	103.21	67.10	0.00	103.43	104.88	126.90	0.00	105.45	104.79	103.63	104.33	
18 :	65.70	0.00	103.58	103.05	67.20	0.00	103.44	104.80	125.70	0.00	105.05	104.82	103.51	104.19	
19 :	65.60	0.00	103.43	103.21	65.80	0.00	103.46	104.75	126.60	0.00	104.65	104.61	103.34	103.90	
20 :	65.60	0.00	103.35	102.84	65.90	0.00	103.39	104.57	127.30	0.00	104.42	104.40	103.33	103.55	
21 :	66.60	0.00	103.18	102.80	65.90	0.00	103.24	104.42	127.40	0.00	104.23	104.18	103.38	103.30	
22 :	63.90	0.00	103.16	102.62	65.30	0.00	102.92	104.23	111.80	0.00	104.19	104.02	103.23	103.15	
23 :	28.10	0.00	103.04	102.14	48.80	0.00	103.09	104.26	72.40	0.00	104.08	104.05	103.20	103.14	
24 :	15.70	0.00	103.01	102.06	29.80	0.00	102.89	104.11	65.90	0.00	104.07	103.90	103.76	103.14	

28 MAR 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

28 MAR 2001

	DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR :	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	
1 :	1.50	0.00	105.27	102.20	101.71	101.33	25.50	0.00	103.17	103.21	26.90	0.00	104.06	103.37	
2 :	1.50	0.00	105.20	102.15	101.59	101.11	27.00	0.00	103.22	103.14	28.90	0.00	103.93	103.10	
3 :	1.50	0.00	104.99	101.96	101.34	100.95	19.40	0.00	103.22	103.11	22.00	0.00	103.92	103.05	
4 :	1.50	0.00	105.04	101.92	101.17	100.77	19.00	0.00	103.00	102.79	22.40	0.00	103.75	103.06	
5 :	1.50	0.00	104.88	101.91	100.93	100.57	26.60	0.00	102.97	102.75	27.80	0.00	103.71	103.06	
6 :	1.50	0.00	104.84	101.73	100.80	100.49	39.40	0.00	102.78	102.84	28.70	0.00	103.52	103.02	
7 :	1.50	0.00	104.91	101.80	100.77	100.49	39.90	0.00	102.73	102.79	39.00	0.00	103.47	102.91	
8 :	1.50	0.00	105.04	101.92	100.68	100.74	38.90	0.00	102.84	102.77	39.60	0.00	103.60	103.06	
9 :	1.50	0.00	105.40	102.22	100.73	101.24	39.50	0.00	102.70	102.73	39.40	0.00	103.59	103.07	
10 :	1.50	0.00	105.82	102.46	100.91	102.08	42.10	0.00	102.79	103.80	43.40	0.00	103.53	103.03	
11 :	1.50	0.00	106.30	102.74	101.15	102.75	45.50	0.00	102.84	103.40	46.20	0.00	103.55	103.18	
12 :	1.50	0.00	106.55	102.98	101.60	103.32	46.00	0.00	102.81	103.00	46.60	0.00	103.59	103.02	
13 :	1.50	0.00	106.94	103.40	102.07	104.17	50.20	0.00	102.97	103.04	50.90	0.00	103.62	103.22	
14 :	1.50	0.00	107.28	103.59	102.59	104.24	50.40	0.00	103.03	102.99	51.50	0.00	103.64	103.11	
15 :	1.50	0.00	107.19	103.66	102.89	104.16	51.30	0.00	103.14	103.07	51.40	0.00	103.75	103.26	
16 :	1.50	0.00	106.93	103.40	102.89	103.74	50.50	0.00	103.14	103.03	51.50	0.00	103.75	103.25	
17 :	1.50	0.00	106.59	103.13	102.59	103.26	56.40	0.00	103.20	103.03	55.40	0.00	103.74	103.10	
18 :	1.50	0.00	105.97	102.75	102.23	102.69	56.60	0.00	103.30	103.06	56.20	0.00	103.68	103.07	
19 :	1.50	0.00	106.59	102.44	101.78	102.13	56.90	0.00	103.08	103.05	60.30	0.00	103.67	103.03	
20 :	1.50	0.00	104.99	102.07	101.41	101.70	57.50	0.00	103.03	102.95	60.10	0.00	103.59	102.83	
21 :	1.50	0.00	104.79	101.91	101.26	101.40	47.80	0.00	103.00	102.91	59.90	0.00	103.56	102.83	
22 :	1.50	0.00	105.06	101.81	101.12	101.09	45.60	0.00	102.92	102.87	59.90	0.00	103.34	102.72	
23 :	1.50	0.00	105.29	101.78	101.16	100.82	43.80	0.00	102.81	102.73	45.50	0.00	103.37	102.69	
24 :	1.50	0.00	105.58	101.76	101.14	100.66	19.60	0.00	102.59	102.64	24.40	0.00	103.26	102.64	
	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR :	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT	
1 :	33.00	0.00	104.97	104.65	42.00	0.00	103.35	104.41	61.80	0.00	105.84	105.29	105.78	103.37	
2 :	28.90	0.00	104.81	103.81	29.10	0.00	103.33	104.38	78.00	0.00	105.55	105.25	105.71	103.22	
3 :	21.50	0.00	104.76	103.47	21.30	0.00	103.24	104.20	79.70	0.00	105.45	105.21	105.53	103.05	
4 :	20.30	0.00	104.59	103.74	19.50	0.00	103.25	104.24	80.70	0.00	105.36	105.05	105.53	103.07	
5 :	20.90	0.00	104.55	103.56	19.80	0.00	103.17	104.08	97.20	0.00	105.33	105.05	105.37	102.93	
6 :	27.20	0.00	104.52	103.68	26.20	0.00	102.96	104.18	99.20	0.00	105.29	105.00	105.68	102.74	
7 :	30.40	0.00	104.38	103.71	30.00	0.00	103.04	104.18	115.20	0.00	105.24	105.23	105.68	102.58	
8 :	41.20	0.00	104.21	104.15	33.90	0.00	103.18	104.32	116.90	0.00	105.38	105.27	105.71	102.57	
9 :	40.50	0.00	104.21	104.12	40.30	0.00	103.29	104.53	118.00	0.00	105.40	105.10	105.77	102.66	
10 :	42.20	0.00	104.20	104.12	43.00	0.00	103.28	104.79	122.20	0.00	105.49	105.29	105.95	102.79	
11 :	45.50	0.00	104.33	103.98	45.50	0.00	103.23	104.80	119.70	0.00	105.51	105.36	105.95	102.91	
12 :	45.10	0.00	104.19	104.15	45.50	0.00	103.13	104.83	118.50	0.00	105.38	105.35	105.30	103.08	
13 :	48.70	0.00	104.21	104.07	49.80	0.00	103.17	104.99	120.00	0.00	105.44	105.46	105.08	103.28	
14 :	49.00	0.00	104.43	104.14	49.40	0.00	103.29	104.94	120.00	0.00	105.55	105.51	105.02	103.62	
15 :	54.40	0.00	104.50	104.21	50.50	0.00	103.36	105.01	129.60	0.00	105.59	105.59	104.96	103.95	
16 :	54.90	0.00	104.38	104.08	52.30	0.00	103.38	104.84	131.00	0.00	105.67	105.59	104.81	104.11	
17 :	59.60	0.00	104.66	103.94	56.90	0.00	103.65	104.81	144.20	0.00	105.66	105.54	104.70	104.17	
18 :	59.60	0.00	104.52	103.73	55.80	0.00	103.69	104.75	144.90	0.00	105.63	105.34	104.76	104.13	
19 :	64.90	0.00	104.34	103.65	64.10	0.00	103.75	104.51	145.10	0.00	105.54	105.17	104.43	103.93	
20 :	65.80	0.00	104.27	103.63	65.80	0.00	103.69	104.34	146.00	0.00	105.42	105.10	104.28	103.89	
21 :	65.70	0.00	104.19	103.56	64.80	0.00	103.57	104.30	146.70	0.00	105.34	104.92	104.19	103.73	
22 :	63.60	0.00	104.01	103.36	64.00	0.00	103.58	104.30	145.70	0.00	105.27	104.82	103.99	103.54	
23 :	43.80	0.00	103.72	103.13	42.60	0.00	103.17	104.12	112.10	0.00	105.24	104.84	104.13	103.24	
24 :	21.90	0.00	103.66	102.99	21.70	0.00	102.90	103.98	80.70	0.00	105.08	104.65	103.83	103.24	

27 MAR 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

27 MAR 2001

	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR :	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1 :	1.60	0.00	102.93	100.84	100.34	099.80	12.80	0.00	101.64	101.83	14.60	0.00	102.80	102.24
2 :	1.60	0.00	102.72	100.84	100.17	099.64	14.60	0.00	101.76	101.57	12.80	0.00	102.80	102.25
3 :	1.60	0.00	102.68	100.79	100.11	099.44	13.10	0.00	101.56	101.76	14.30	0.00	102.77	102.22
4 :	1.60	0.00	102.71	100.79	100.09	099.31	18.90	0.00	101.65	101.85	12.90	0.00	102.78	102.25
5 :	1.60	0.00	102.69	100.79	100.12	099.17	19.50	0.00	101.44	101.63	18.80	0.00	102.74	102.19
6 :	1.60	0.00	102.49	100.75	099.89	099.04	25.20	0.00	101.28	101.62	25.90	0.00	102.76	102.37
7 :	1.60	0.00	102.48	100.75	099.93	099.15	39.50	0.00	101.58	101.79	38.20	0.00	102.78	102.37
8 :	1.60	0.00	102.89	101.02	100.07	099.56	59.80	0.00	102.00	102.07	56.70	0.00	102.92	102.35
9 :	1.50	0.00	103.22	101.53	100.40	100.45	60.90	0.00	102.09	101.98	61.90	0.00	103.01	102.49
10 :	1.50	0.00	103.88	102.02	100.97	101.35	59.60	0.00	102.17	102.07	62.30	0.00	103.09	102.56
11 :	1.50	0.00	105.39	102.79	101.51	102.34	54.60	0.00	102.84	102.21	61.70	0.00	103.06	102.80
12 :	1.50	0.00	106.49	103.13	102.21	102.95	54.40	0.00	103.10	102.42	61.90	0.00	103.26	102.88
13 :	1.50	0.00	107.08	103.62	102.76	103.41	53.00	0.00	102.72	102.48	61.70	0.00	103.36	102.95
14 :	1.50	0.00	107.27	103.78	103.14	103.74	55.30	0.00	103.46	102.83	63.20	0.00	103.54	103.14
15 :	1.50	0.00	107.17	103.99	103.30	103.89	54.30	0.00	104.29	102.89	62.40	0.00	103.62	103.09
16 :	1.50	0.00	106.76	103.83	103.28	103.76	54.80	0.00	103.85	102.84	65.30	0.00	104.26	103.18
17 :	1.50	0.00	106.24	103.49	103.12	103.49	56.30	0.00	103.62	102.98	62.20	0.00	103.90	103.36
18 :	1.50	0.00	105.99	103.28	102.88	103.14	60.10	0.00	103.39	103.19	64.00	0.00	104.07	103.49
19 :	1.50	0.00	106.24	103.11	102.78	102.68	60.70	0.00	103.35	103.12	70.50	0.00	104.06	103.40
20 :	1.50	0.00	105.43	102.66	102.45	102.25	61.90	0.00	103.28	102.94	71.90	0.00	104.10	103.51
21 :	1.50	0.00	105.43	102.52	102.27	102.00	60.20	0.00	103.35	102.98	70.40	0.00	104.30	103.50
22 :	1.50	0.00	105.43	102.40	102.23	101.76	44.90	0.00	103.69	103.34	61.10	0.00	104.47	103.54
23 :	1.50	0.00	105.58	102.44	102.12	101.65	39.20	0.00	103.52	103.34	39.80	0.00	104.29	103.47
24 :	1.50	0.00	105.60	102.37	101.93	101.53	27.90	0.00	103.36	103.30	28.40	0.00	104.06	103.42
	LOWER MONUMENTAL			ICE HARBOR			MCNARY			PASCO				
HOUR :	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB %SAT. TAILW.	GAS % SAT			
1 :	13.70	0.00	104.24 102.96	13.00	0.00	102.24 102.05	83.40	0.00	104.69 104.18	104.37	102.44			
2 :	15.10	0.00	104.17 102.89	13.00	0.00	102.21 101.88	83.20	0.00	104.69 104.00	104.33	102.39			
3 :	13.70	0.00	104.20 102.78	13.10	0.00	102.13 101.82	83.30	0.00	104.72 104.00	104.20	102.28			
4 :	13.70	0.00	104.20 102.99	13.10	0.00	102.25 101.79	77.30	0.00	104.70 103.84	104.19	102.08			
5 :	20.40	0.00	104.16 102.95	15.00	0.00	102.24 101.80	105.40	0.00	104.70 104.02	104.35	102.12			
6 :	28.00	0.00	104.03 103.12	20.70	0.00	102.24 101.96	107.50	0.00	104.69 103.88	104.49	101.99			
7 :	39.50	0.00	104.22 103.49	36.00	0.00	102.32 102.43	117.30	0.00	104.78 103.93	104.54	101.93			
8 :	59.20	0.00	104.26 103.72	51.70	0.00	102.45 102.86	138.50	0.00	104.92 104.09	104.83	102.06			
9 :	62.20	0.00	104.46 104.24	63.50	0.00	102.77 103.02	146.40	0.00	105.13 104.27	104.74	102.28			
10 :	61.10	0.00	104.82 104.19	64.30	0.00	102.95 103.08	145.70	0.00	105.58 104.49	104.97	102.48			
11 :	60.40	0.00	104.79 104.41	62.70	0.00	103.31 104.42	144.90	0.00	106.08 104.63	105.21	102.85			
12 :	60.30	0.00	104.58 104.42	63.80	0.00	103.46 104.40	145.50	0.00	106.34 105.01	105.35	103.13			
13 :	60.20	0.00	104.81 104.67	62.60	0.00	103.70 104.63	137.90	0.00	106.44 105.24	105.58	103.60			
14 :	61.80	0.00	104.86 105.19	62.60	0.00	103.85 104.77	146.10	0.00	106.45 105.90	105.95	103.86			
15 :	60.30	0.00	105.17 104.63	62.50	0.00	104.05 104.65	146.10	0.00	106.24 105.93	105.63	103.99			
16 :	73.90	0.00	105.00 104.64	62.70	0.00	104.08 104.76	146.10	0.00	106.46 106.04	105.58	104.16			
17 :	74.80	0.00	105.28 104.78	62.90	0.00	104.16 104.84	145.30	0.00	106.43 106.28	105.98	104.48			
18 :	78.10	0.00	105.52 104.86	72.60	0.00	104.45 104.97	145.80	0.00	106.38 106.39	106.07	104.72			
19 :	84.50	0.00	105.72 104.88	72.10	0.00	104.27 104.94	147.10	0.00	107.00 106.30	105.98	104.63			
20 :	83.30	0.00	105.79 104.81	71.60	0.00	104.40 105.05	147.80	0.00	106.42 106.00	105.92	104.56			
21 :	83.10	0.00	105.63 104.78	70.80	0.00	104.30 104.85	146.10	0.00	106.20 105.92	105.85	104.37			
22 :	66.00	0.00	105.65 104.78	65.70	0.00	104.19 104.84	119.30	0.00	106.15 105.74	105.94	104.23			
23 :	58.80	0.00	105.31 104.58	64.60	0.00	104.08 104.74	85.10	0.00	106.04 105.56	105.65	104.03			
24 :	37.40	0.00	105.23 104.33	44.40	0.00	103.59 104.54	66.50	0.00	105.93 105.55	105.74	104.03			

26 MAR 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

26 MAR 2001

	DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE				
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT. TAILW.		ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT		TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT. TAILW.		TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT. TAILW.		
1	1.50	0.00	105.01	:	100.55	100.49	100.04	:	12.90	0.00	102.30	102.38	:	13.10	0.00	103.78	103.11
2	1.40	0.00	105.04	:	100.42	100.50	099.93	:	12.70	0.00	101.90	102.22	:	12.80	0.00	103.75	102.93
3	1.40	0.00	105.04	:	100.48	100.43	099.93	:	13.00	0.00	101.75	101.68	:	12.80	0.00	103.75	102.78
4	1.40	0.00	104.92	:	100.43	100.44	099.76	:	24.50	0.00	101.89	101.96	:	13.20	0.00	103.85	102.78
5	1.50	0.00	104.73	:	100.31	100.43	099.79	:	41.80	0.00	102.28	102.31	:	19.70	0.00	103.83	102.74
6	1.50	0.00	104.62	:	100.28	100.47	099.77	:	41.50	0.00	102.07	102.27	:	28.50	0.00	103.67	102.99
7	1.40	0.00	104.58	:	100.39	100.39	099.84	:	40.70	0.00	102.13	102.18	:	42.20	0.00	103.58	102.94
8	1.50	0.00	104.69	:	100.50	100.39	099.93	:	40.70	0.00	102.11	102.01	:	44.10	0.00	103.31	102.89
9	1.50	0.00	105.21	:	100.77	100.63	100.50	:	40.60	0.00	101.98	102.08	:	46.50	0.00	103.42	102.87
10	1.50	0.00	105.63	:	101.44	100.75	100.71	:	40.60	0.00	102.08	102.16	:	43.40	0.00	103.38	103.08
11	1.40	0.00	105.96	:	101.82	100.94	101.57	:	44.50	0.00	102.23	102.13	:	46.30	0.00	103.31	102.99
12	1.50	0.00	106.35	:	102.50	101.35	102.35	:	48.20	0.00	102.11	102.18	:	46.70	0.00	103.31	102.99
13	1.80	0.00	106.51	:	102.77	101.64	103.15	:	45.70	0.00	102.15	102.35	:	46.40	0.00	103.50	103.05
14	1.70	0.00	105.45	:	102.76	102.07	103.45	:	45.60	0.00	102.23	102.24	:	46.20	0.00	103.61	102.98
15	1.60	0.00	102.10	:	102.92	102.13	103.36	:	42.70	0.00	102.08	102.00	:	45.70	0.00	103.59	103.03
16	1.60	0.00	103.89	:	102.60	101.77	103.03	:	47.40	0.00	102.17	102.08	:	52.40	0.00	103.46	102.79
17	1.60	0.00	104.03	:	102.30	101.47	102.63	:	52.30	0.00	102.03	101.88	:	52.50	0.00	103.46	102.78
18	1.60	0.00	103.66	:	101.96	101.02	102.10	:	51.70	0.00	102.10	101.90	:	53.50	0.00	103.46	102.78
19	1.60	0.00	104.03	:	101.67	100.87	101.45	:	53.70	0.00	102.07	101.85	:	52.90	0.00	103.39	102.56
20	1.60	0.00	103.11	:	101.36	100.66	101.02	:	53.00	0.00	102.14	101.94	:	52.20	0.00	103.30	102.51
21	1.60	0.00	103.05	:	101.18	100.59	100.79	:	51.10	0.00	102.42	101.92	:	53.70	0.00	103.17	102.41
22	1.60	0.00	103.17	:	101.13	100.44	100.44	:	52.00	0.00	102.31	101.95	:	50.30	0.00	103.00	102.36
23	1.60	0.00	103.16	:	100.97	100.39	100.15	:	16.80	0.00	102.04	102.47	:	15.50	0.00	103.03	102.33
24	1.60	0.00	103.09	:	100.91	100.43	099.96	:	12.80	0.00	101.87	102.27	:	17.20	0.00	102.93	102.30
	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO				
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT. TAILW.		TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT. TAILW.		TOTAL DISCH KCFS	SPILL KCFS	OR FB %SAT. TAILW.		TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT. TAILW.		
1	15.60	0.00	105.36	103.99	:	18.60	0.00	103.33	103.11	:	56.70	0.00	105.95	105.37	105.26	:	*****
2	13.90	0.00	104.88	103.77	:	14.70	0.00	103.12	102.85	:	55.90	0.00	105.74	105.19	105.27	:	*****
3	13.90	0.00	104.85	103.79	:	11.90	0.00	103.13	102.53	:	55.40	0.00	105.70	105.02	105.37	:	*****
4	13.90	0.00	104.98	103.90	:	12.10	0.00	103.13	102.41	:	55.30	0.00	105.63	104.83	105.32	:	*****
5	21.60	0.00	104.95	103.98	:	12.20	0.00	102.93	102.37	:	80.80	0.00	105.49	104.82	105.42	:	*****
6	29.40	0.00	104.82	104.09	:	24.90	0.00	102.89	102.59	:	95.00	0.00	105.46	104.78	105.35	:	*****
7	43.70	0.00	105.09	104.19	:	42.30	0.00	103.14	103.05	:	119.70	0.00	105.39	104.72	105.44	:	*****
8	45.60	0.00	104.87	104.13	:	46.30	0.00	103.23	103.25	:	122.10	0.00	105.20	104.81	105.53	:	*****
9	46.20	0.00	104.82	104.31	:	46.40	0.00	103.19	103.59	:	123.90	0.00	105.33	104.81	105.26	:	*****
10	45.50	0.00	104.71	104.62	:	45.70	0.00	103.09	103.62	:	115.80	0.00	105.33	104.97	105.36	:	*****
11	48.30	0.00	104.71	104.80	:	50.40	0.00	103.07	103.84	:	117.20	0.00	105.45	104.92	106.16	:	*****
12	48.70	0.00	104.58	104.98	:	49.10	0.00	103.18	103.84	:	130.70	0.00	105.49	104.93	106.01	:	*****
13	48.70	0.00	104.79	104.94	:	50.50	0.00	103.14	104.16	:	124.90	0.00	105.68	105.00	105.68	:	*****
14	48.90	0.00	104.73	105.16	:	48.90	0.00	103.22	103.86	:	121.70	0.00	105.58	105.04	105.47	:	103.52
15	48.90	0.00	104.79	104.37	:	49.10	0.00	103.29	104.01	:	121.10	0.00	105.56	105.03	105.48	:	103.65
16	54.60	0.00	104.94	104.59	:	54.80	0.00	103.28	103.75	:	114.00	0.00	105.43	105.07	105.47	:	103.65
17	53.30	0.00	104.95	104.54	:	56.00	0.00	103.22	103.53	:	108.00	0.00	105.46	105.19	105.87	:	103.78
18	53.10	0.00	104.84	104.14	:	56.70	0.00	103.13	103.34	:	121.80	0.00	105.28	105.10	105.72	:	103.57
19	52.90	0.00	104.77	103.86	:	55.20	0.00	103.03	103.10	:	133.50	0.00	105.20	104.89	104.98	:	103.35
20	54.10	0.00	104.76	103.79	:	54.60	0.00	102.95	103.00	:	133.20	0.00	105.09	104.85	104.65	:	103.26
21	52.40	0.00	104.58	103.69	:	54.40	0.00	102.82	102.79	:	132.10	0.00	105.01	104.59	104.57	:	103.02
22	50.40	0.00	104.45	103.51	:	53.60	0.00	102.80	102.62	:	128.40	0.00	104.85	104.43	104.50	:	102.85
23	15.90	0.00	104.42	103.22	:	38.40	0.00	102.66	102.47	:	98.80	0.00	104.72	104.43	104.52	:	102.74
24	13.90	0.00	104.35	102.84	:	18.80	0.00	102.34	102.30	:	90.00	0.00	104.61	104.10	104.43	:	102.74

25 MAR 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

25 MAR 2001

HOUR	DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
	TOTAL DISCH. KCFS	SPILL KCFS	GAS TAILW.	%SAT	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT	TOTAL DISCH KCFS
1	1.40	0.00	106.29		101.73	101.99	101.69	20.70	0.00	103.98	103.84	18.00	0.00	106.12	104.96	
2	1.50	0.00	106.20		101.65	101.69	101.33	17.00	0.00	104.05	103.56	14.80	0.00	105.72	104.92	
3	1.40	0.00	106.01		101.50	101.51	101.25	14.00	0.00	104.02	103.64	13.70	0.00	105.48	104.93	
4	1.50	0.00	105.84		101.42	101.35	101.07	13.60	0.00	103.88	103.65	13.70	0.00	105.65	104.84	
5	1.50	0.00	105.72		101.38	101.21	100.95	13.80	0.00	104.07	103.57	13.60	0.00	105.67	104.87	
6	1.50	0.00	105.74		101.29	101.13	100.80	12.70	0.00	103.83	103.59	13.30	0.00	105.70	104.75	
7	1.50	0.00	105.80		101.18	100.90	100.68	12.60	0.00	103.68	103.69	13.30	0.00	105.72	104.63	
8	1.50	0.00	106.10		101.39	100.90	100.73	13.10	0.00	103.47	103.13	13.40	0.00	105.27	104.30	
9	1.50	0.00	106.39		101.58	100.99	101.11	26.40	0.00	103.68	103.19	13.60	0.00	105.10	104.00	
10	1.40	0.00	106.46		101.34	100.88	101.03	30.90	0.00	103.49	103.26	21.10	0.00	104.76	103.90	
11	1.50	0.00	106.22		101.46	100.87	100.98	33.50	0.00	103.25	103.09	31.70	0.00	104.68	103.95	
12	1.50	0.00	106.39		101.66	101.03	101.60	40.50	0.00	103.16	102.89	35.00	0.00	104.25	103.60	
13	1.50	0.00	106.42		102.00	101.08	101.97	41.40	0.00	102.94	102.85	38.30	0.00	104.32	103.75	
14	1.40	0.00	106.66		102.43	101.01	102.37	37.80	0.00	103.05	102.93	35.30	0.00	104.34	103.82	
15	1.40	0.00	106.65		102.88	101.15	102.63	39.40	0.00	103.13	103.04	39.50	0.00	104.35	103.91	
16	1.50	0.00	106.47		102.74	101.11	102.60	38.50	0.00	103.11	103.01	39.60	0.00	104.19	103.92	
17	1.50	0.00	106.17		102.36	101.11	102.44	38.80	0.00	102.99	102.95	44.20	0.00	104.20	103.82	
18	1.40	0.00	105.75		101.94	100.89	101.93	41.80	0.00	103.04	102.90	43.40	0.00	103.79	103.80	
19	1.40	0.00	106.17		101.67	100.77	101.20	43.50	0.00	102.99	103.02	44.30	0.00	103.89	103.63	
20	1.40	0.00	105.11		101.35	100.61	100.75	41.20	0.00	102.93	102.79	47.90	0.00	104.05	103.52	
21	1.50	0.00	105.10		101.01	100.58	100.47	25.60	0.00	102.68	102.73	44.90	0.00	103.95	103.39	
22	1.40	0.00	104.96		100.85	100.39	100.20	24.70	0.00	102.60	102.50	42.70	0.00	103.92	103.35	
23	1.40	0.00	104.88		100.61	100.43	100.17	22.30	0.00	102.64	103.16	21.60	0.00	103.91	103.22	
24	1.40	0.00	105.01		100.58	100.44	100.01	13.10	0.00	102.44	102.88	13.70	0.00	103.97	103.22	
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT		
1	17.70	0.00	106.89	104.64	24.10	0.00	105.69	104.56	83.40	0.00	108.38	108.10	107.17	*****		
2	14.10	0.00	106.61	104.66	12.80	0.00	105.47	104.46	81.90	0.00	107.05	107.80	107.13	*****		
3	13.50	0.00	106.26	104.64	10.10	0.00	105.14	104.12	80.80	0.00	106.87	107.90	107.33	*****		
4	13.50	0.00	106.20	104.73	9.90	0.00	105.00	104.04	80.90	0.00	106.78	107.87	107.52	*****		
5	13.50	0.00	106.83	104.71	11.40	0.00	104.94	103.92	71.20	0.00	106.78	107.57	107.26	*****		
6	13.50	0.00	107.26	104.85	10.10	0.00	104.68	103.78	59.60	0.00	106.48	107.35	106.83	*****		
7	13.50	0.00	107.49	104.77	9.90	0.00	104.40	103.51	100.40	0.00	105.93	107.22	106.62	*****		
8	13.80	0.00	107.23	104.58	10.00	0.00	103.96	103.48	107.80	0.00	105.84	107.17	107.34	*****		
9	13.70	0.00	105.88	104.56	10.00	0.00	103.66	103.76	108.20	0.00	105.75	106.82	107.14	*****		
10	21.20	0.00	105.62	104.86	14.50	0.00	103.57	104.33	105.40	0.00	105.50	106.94	106.47	*****		
11	32.30	0.00	104.78	105.54	23.70	0.00	103.61	104.79	94.10	0.00	105.74	106.92	106.60	*****		
12	34.50	0.00	104.60	105.54	32.60	0.00	103.71	105.24	93.60	0.00	105.72	107.19	106.89	*****		
13	38.20	0.00	105.54	105.35	36.70	0.00	103.66	105.66	92.50	0.00	106.30	106.51	106.98	*****		
14	40.00	0.00	105.73	105.46	35.90	0.00	103.74	105.43	84.60	0.00	107.67	106.35	106.88	*****		
15	38.20	0.00	105.58	105.59	36.20	0.00	103.77	105.17	82.60	0.00	107.66	106.17	106.92	*****		
16	39.80	0.00	104.47	105.75	40.20	0.00	103.61	105.04	85.00	0.00	107.82	106.29	106.79	*****		
17	41.10	0.00	104.47	105.18	39.90	0.00	103.55	104.69	86.50	0.00	107.76	106.25	106.58	*****		
18	43.40	0.00	105.69	104.72	41.80	0.00	103.39	104.36	107.50	0.00	107.37	106.39	106.08	*****		
19	44.50	0.00	105.73	104.61	43.20	0.00	103.44	103.99	115.60	0.00	107.28	106.08	105.75	*****		
20	44.50	0.00	105.64	104.47	44.00	0.00	103.45	103.78	117.60	0.00	106.89	105.69	105.66	*****		
21	44.40	0.00	105.58	104.40	43.20	0.00	103.48	103.51	116.40	0.00	106.73	105.67	105.47	*****		
22	43.70	0.00	105.49	104.31	42.80	0.00	103.75	103.38	114.50	0.00	106.42	105.49	105.30	*****		
23	27.50	0.00	105.49	104.00	29.60	0.00	103.62	103.26	77.20	0.00	106.25	105.30	105.23	*****		
24	20.30	0.00	105.33	104.00	28.20	0.00	103.48	103.22	60.20	0.00	105.97	105.42	105.10	*****		

24 MAR 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

24 MAR 2001

	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.
1	1.40	0.00	105.34	101.91	101.43	101.09	13.10	0.00	104.10	103.74	13.00	0.00	105.09	104.01
2	1.50	0.00	105.34	101.78	101.46	100.81	13.10	0.00	103.83	103.46	14.20	0.00	105.11	104.03
3	1.50	0.00	105.38	101.68	101.37	100.70	13.20	0.00	103.73	103.63	14.20	0.00	104.85	103.90
4	1.50	0.00	105.18	101.65	101.19	100.55	13.40	0.00	104.01	103.51	12.50	0.00	104.75	103.77
5	1.50	0.00	105.19	101.49	100.91	100.27	12.90	0.00	103.97	103.39	12.50	0.00	104.67	103.84
6	1.50	0.00	105.18	101.37	100.77	100.15	14.20	0.00	104.04	103.55	15.30	0.00	104.65	103.85
7	1.50	0.00	105.18	101.50	100.80	100.12	28.70	0.00	104.16	103.69	29.20	0.00	104.67	103.98
8	1.40	0.00	105.43	101.74	100.72	100.70	33.60	0.00	104.28	103.84	38.00	0.00	104.94	104.22
9	1.50	0.00	106.03	102.04	101.23	101.52	38.50	0.00	104.29	103.84	39.80	0.00	104.87	104.36
10	1.50	0.00	106.55	102.84	101.87	102.56	39.80	0.00	104.06	104.10	39.60	0.00	104.85	104.89
11	1.50	0.00	107.38	103.55	102.71	103.63	39.80	0.00	104.02	104.19	39.60	0.00	104.70	104.85
12	1.50	0.00	108.12	104.22	103.37	104.56	40.00	0.00	104.13	104.29	39.60	0.00	105.60	104.83
13	1.50	0.00	108.35	104.59	103.95	105.50	40.10	0.00	104.25	104.43	39.60	0.00	107.36	104.93
14	1.50	0.00	108.31	104.86	104.29	105.76	40.70	0.00	104.48	104.53	40.50	0.00	107.82	105.31
15	1.40	0.00	108.10	104.80	104.27	105.98	35.70	0.00	104.54	104.44	39.70	0.00	107.12	105.53
16	1.50	0.00	107.69	104.73	104.25	105.95	35.30	0.00	104.80	104.55	36.20	0.00	107.09	105.67
17	1.40	0.00	107.34	104.32	103.91	105.72	31.70	0.00	104.61	104.53	34.80	0.00	107.30	105.55
18	1.50	0.00	106.97	103.81	103.60	105.11	29.80	0.00	104.63	104.41	34.30	0.00	107.68	105.43
19	1.50	0.00	107.34	103.23	102.99	104.16	35.90	0.00	104.63	104.39	35.30	0.00	107.16	105.43
20	1.40	0.00	105.96	102.79	102.64	103.48	36.60	0.00	104.52	104.35	38.50	0.00	106.76	105.45
21	1.50	0.00	105.94	102.41	102.41	102.92	30.90	0.00	104.19	104.23	35.60	0.00	108.94	105.31
22	1.50	0.00	106.04	102.07	102.15	102.53	27.70	0.00	104.19	104.25	35.40	0.00	108.93	105.43
23	1.50	0.00	106.02	102.03	102.00	102.01	26.10	0.00	104.34	104.14	31.50	0.00	108.84	105.31
24	1.50	0.00	106.01	101.92	101.80	102.04	21.20	0.00	104.12	104.15	19.70	0.00	106.78	105.15
	LOWER MONUMENTAL			ICE HARBOR			MCNARY			PASCO				
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT
1	13.40	0.00	106.81	103.90	12.00	0.00	105.49	103.61	74.90	0.00	105.38	107.08	106.38	*****
2	13.60	0.00	106.71	103.83	11.70	0.00	105.42	103.62	74.80	0.00	106.24	107.52	106.39	*****
3	13.70	0.00	105.89	103.86	11.40	0.00	105.29	103.52	65.50	0.00	106.30	107.70	106.48	*****
4	13.80	0.00	105.93	103.91	11.40	0.00	105.05	103.52	60.20	0.00	106.45	107.67	106.34	*****
5	13.90	0.00	106.08	103.91	11.40	0.00	105.05	103.67	60.70	0.00	106.48	107.39	106.52	*****
6	14.20	0.00	106.11	103.91	12.80	0.00	104.82	103.58	62.70	0.00	106.09	107.39	106.52	*****
7	29.40	0.00	105.81	104.49	29.50	0.00	104.55	104.06	104.60	0.00	105.52	107.39	106.91	*****
8	31.70	0.00	105.84	104.88	32.00	0.00	104.54	104.56	98.40	0.00	105.31	107.28	107.07	*****
9	37.80	0.00	105.66	105.08	37.90	0.00	104.70	105.14	110.50	0.00	105.48	107.19	107.07	*****
10	38.00	0.00	105.49	105.33	38.00	0.00	105.18	105.17	109.50	0.00	107.03	107.42	107.32	*****
11	40.10	0.00	105.21	105.64	40.20	0.00	105.47	105.42	110.10	0.00	108.43	107.99	107.40	*****
12	41.90	0.00	105.33	107.03	40.40	0.00	105.72	105.68	110.20	0.00	108.88	107.92	107.34	*****
13	41.10	0.00	105.32	106.22	41.20	0.00	105.66	105.83	110.10	0.00	109.13	107.96	107.48	*****
14	40.40	0.00	107.02	106.22	42.10	0.00	105.52	106.03	110.20	0.00	109.64	107.78	107.57	*****
15	40.20	0.00	106.96	106.63	42.10	0.00	105.31	106.10	101.20	0.00	110.49	107.44	107.81	*****
16	40.10	0.00	106.67	106.54	42.20	0.00	105.19	106.19	100.60	0.00	109.75	109.92	108.00	*****
17	40.10	0.00	106.34	106.45	40.90	0.00	105.40	106.17	100.70	0.00	108.89	109.14	107.90	*****
18	40.10	0.00	105.77	106.00	40.90	0.00	105.33	105.92	101.20	0.00	108.54	109.49	107.85	*****
19	40.20	0.00	108.54	105.89	41.80	0.00	105.16	105.65	109.80	0.00	108.81	109.78	107.60	*****
20	40.00	0.00	109.43	105.69	41.90	0.00	105.87	105.40	112.70	0.00	107.83	109.31	107.37	*****
21	40.10	0.00	108.23	105.72	41.80	0.00	106.47	105.14	104.50	0.00	107.30	108.80	107.24	*****
22	40.00	0.00	108.28	105.40	43.30	0.00	106.60	104.89	98.80	0.00	106.93	108.51	107.01	*****
23	36.50	0.00	107.71	105.33	40.90	0.00	106.24	104.83	95.20	0.00	106.84	108.41	106.91	*****
24	18.30	0.00	108.22	104.88	25.10	0.00	105.88	104.66	80.60	0.00	107.32	108.10	107.02	*****

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HOUR	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.50	0.00	104.90	101.44	100.93	100.51	15.20	0.00	104.44	102.98	15.80	0.00	107.22	104.64
2	1.50	0.00	104.94	101.27	100.78	100.20	14.70	0.00	103.69	102.98	12.90	0.00	106.91	104.51
3	1.50	0.00	105.04	101.08	100.82	100.03	14.30	0.00	103.85	103.13	12.70	0.00	106.49	104.46
4	1.50	0.00	104.94	101.11	100.63	099.74	12.70	0.00	103.82	103.60	12.90	0.00	105.94	104.30
5	1.50	0.00	104.75	100.90	100.40	099.57	16.40	0.00	103.89	103.29	15.10	0.00	105.62	104.29
6	1.50	0.00	104.54	100.73	100.19	099.36	17.80	0.00	103.90	102.87	17.30	0.00	105.21	104.25
7	1.50	0.00	104.67	100.82	100.09	099.45	29.70	0.00	103.77	102.99	30.30	0.00	104.77	104.39
8	1.40	0.00	105.09	101.21	100.26	100.00	41.00	0.00	103.75	103.26	43.20	0.00	105.47	104.49
9	1.50	0.00	105.54	101.83	100.67	100.83	40.80	0.00	104.04	103.41	42.80	0.00	105.45	104.59
10	1.50	0.00	106.02	102.56	101.34	102.08	40.60	0.00	103.94	103.54	47.50	0.00	106.82	104.66
11	1.40	0.00	106.97	103.32	102.26	103.27	40.80	0.00	103.57	103.58	47.50	0.00	105.90	105.02
12	1.50	0.00	107.58	104.09	103.03	104.25	40.70	0.00	103.64	103.81	47.50	0.00	105.95	105.17
13	1.40	0.00	107.95	104.76	103.80	105.29	38.30	0.00	103.81	103.88	47.50	0.00	105.53	105.11
14	1.50	0.00	108.21	105.13	104.27	105.96	36.80	0.00	104.07	103.82	47.60	0.00	105.47	105.19
15	1.50	0.00	108.02	104.91	104.69	106.43	30.90	0.00	104.36	103.92	47.20	0.00	105.24	105.13
16	1.50	0.00	107.70	105.00	104.69	106.36	30.10	0.00	104.74	104.00	31.80	0.00	105.28	104.93
17	1.50	0.00	107.16	104.47	104.45	105.59	30.10	0.00	104.93	103.86	30.20	0.00	105.04	104.93
18	1.50	0.00	106.32	103.89	103.91	104.75	26.30	0.00	105.02	103.70	25.30	0.00	105.04	104.78
19	1.40	0.00	107.16	103.40	103.29	103.94	25.60	0.00	105.06	103.70	25.30	0.00	104.77	104.53
20	1.40	0.00	105.42	102.98	102.72	103.22	25.60	0.00	105.89	103.53	25.40	0.00	104.72	104.33
21	1.50	0.00	105.33	102.66	102.26	102.63	27.30	0.00	104.77	103.49	25.50	0.00	104.84	104.17
22	1.50	0.00	105.31	102.37	101.91	102.23	27.20	0.00	104.22	103.59	25.30	0.00	104.70	104.18
23	1.40	0.00	105.37	102.11	101.79	101.82	14.30	0.00	105.02	103.95	14.00	0.00	104.66	103.99
24	1.50	0.00	105.34	101.93	101.64	101.36	13.00	0.00	104.32	103.98	12.70	0.00	104.70	103.99
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO	
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	14.30	0.00	105.29	103.66	17.70	0.00	105.24	103.99	69.90	0.00	104.98	106.82	105.71	000.00
2	13.80	0.00	105.52	103.49	12.20	0.00	104.94	103.81	59.90	0.00	105.12	106.66	105.68	000.00
3	14.00	0.00	105.53	103.36	12.00	0.00	104.86	103.69	60.30	0.00	105.49	106.65	105.66	000.00
4	13.90	0.00	105.35	103.14	12.50	0.00	104.65	103.55	61.20	0.00	105.62	106.51	105.79	000.00
5	15.50	0.00	105.18	103.26	14.40	0.00	104.63	103.47	82.70	0.00	104.73	106.06	105.70	000.00
6	18.80	0.00	104.88	103.90	18.90	0.00	104.43	103.43	131.00	0.00	104.46	105.86	105.81	000.00
7	28.70	0.00	104.19	103.60	29.10	0.00	104.64	103.76	161.60	0.00	104.23	105.81	106.03	000.00
8	29.60	0.00	104.71	103.83	30.90	0.00	104.63	104.07	164.70	0.00	104.47	106.20	106.13	000.00
9	40.80	0.00	104.32	104.01	40.10	0.00	104.70	105.04	164.70	0.00	104.75	106.32	106.12	*****
10	50.60	0.00	104.88	104.17	52.20	0.00	105.65	105.11	163.70	0.00	105.40	106.59	106.12	*****
11	48.20	0.00	103.86	104.38	49.40	0.00	105.47	105.24	154.80	0.00	106.90	107.31	106.53	*****
12	48.40	0.00	103.94	104.79	50.00	0.00	105.28	105.61	149.50	0.00	107.37	107.89	106.61	*****
13	54.90	0.00	107.49	105.47	51.90	0.00	105.20	106.18	148.80	0.00	107.84	107.81	106.69	*****
14	52.40	0.00	*****	105.20	53.40	0.00	104.99	105.74	138.60	0.00	107.20	107.39	106.62	*****
15	46.80	0.00	104.66	105.34	48.00	0.00	104.93	105.57	137.20	0.00	106.75	107.33	106.96	*****
16	31.10	0.00	105.41	105.37	30.70	0.00	104.84	105.67	131.70	0.00	106.54	107.51	107.03	*****
17	30.10	0.00	105.93	105.45	30.90	0.00	104.73	105.53	131.50	0.00	106.88	108.08	106.99	*****
18	26.80	0.00	105.55	105.09	29.00	0.00	104.64	105.24	130.90	0.00	106.52	108.11	106.86	*****
19	27.90	0.00	105.56	104.61	29.50	0.00	104.37	104.80	132.30	0.00	106.08	107.94	106.68	*****
20	26.50	0.00	105.61	104.50	28.90	0.00	104.37	104.67	119.50	0.00	106.07	107.94	106.49	*****
21	27.00	0.00	105.49	104.22	24.80	0.00	104.59	104.39	117.50	0.00	105.83	108.05	106.54	*****
22	26.60	0.00	106.16	104.04	24.10	0.00	105.12	104.22	100.20	0.00	105.91	107.60	106.52	*****
23	14.90	0.00	106.14	103.87	12.40	0.00	105.24	103.96	76.40	0.00	105.80	107.40	106.29	*****
24	13.40	0.00	106.83	103.75	11.80	0.00	105.51	103.72	74.40	0.00	105.79	106.96	106.23	*****

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	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.50	0.00	103.70	101.91	100.78	100.39	20.30	0.00	102.48	102.28	21.10	0.00	106.88	104.30
2	1.50	0.00	103.87	101.78	100.58	100.11	15.20	0.00	102.33	101.90	20.40	0.00	106.63	104.18
3	1.50	0.00	104.02	101.63	100.50	100.04	14.50	0.00	102.69	101.83	15.70	0.00	106.58	104.30
4	1.50	0.00	104.09	101.67	100.43	099.83	14.50	0.00	102.74	101.82	15.20	0.00	105.90	104.17
5	1.50	0.00	103.92	101.51	100.28	099.61	15.80	0.00	102.45	101.55	19.10	0.00	105.86	103.99
6	1.50	0.00	103.79	101.37	100.15	099.46	34.30	0.00	102.29	102.22	37.20	0.00	105.72	104.09
7	1.50	0.00	104.07	101.35	100.13	099.49	44.50	0.00	102.47	102.87	44.30	0.00	105.86	104.60
8	1.50	0.00	104.18	101.63	100.19	099.89	44.80	0.00	102.43	102.61	47.50	0.00	105.59	104.51
9	1.50	0.00	104.41	102.07	100.66	100.63	49.10	0.00	102.59	102.63	54.20	0.00	105.23	104.35
10	1.50	0.00	105.13	102.68	101.19	101.71	49.50	0.00	102.88	102.65	53.00	0.00	105.35	104.70
11	1.40	0.00	106.58	103.47	102.00	102.88	43.40	0.00	102.91	102.82	45.50	0.00	106.36	104.89
12	1.50	0.00	107.49	104.31	102.76	103.90	43.20	0.00	102.97	103.02	44.90	0.00	106.32	105.21
13	1.50	0.00	108.01	105.11	103.63	104.80	43.20	0.00	102.75	103.21	44.80	0.00	106.34	105.46
14	1.40	0.00	108.22	105.47	104.05	105.54	40.70	0.00	104.19	103.28	39.10	0.00	106.15	105.92
15	1.50	0.00	108.04	105.63	104.38	105.87	39.60	0.00	104.51	103.34	38.80	0.00	105.93	105.69
16	1.50	0.00	107.66	105.24	104.44	105.80	39.60	0.00	104.32	103.29	39.40	0.00	105.85	105.61
17	1.40	0.00	107.15	007.30	104.16	105.31	36.60	0.00	105.83	103.33	38.70	0.00	105.89	105.36
18	1.50	0.00	106.31	*****	103.76	104.50	37.50	0.00	105.37	103.17	46.30	0.00	105.61	105.08
19	1.50	0.00	107.15	103.38	103.01	103.48	41.50	0.00	105.06	102.98	46.90	0.00	105.66	105.02
20	1.40	0.00	105.21	102.77	102.38	102.74	46.10	0.00	104.46	103.07	46.90	0.00	106.03	104.86
21	1.50	0.00	104.84	102.37	101.69	102.14	44.40	0.00	104.45	103.01	48.70	0.00	106.71	104.78
22	1.50	0.00	104.92	102.00	101.41	101.59	46.30	0.00	104.54	102.95	47.60	0.00	107.45	104.72
23	1.50	0.00	104.86	101.80	101.24	101.12	31.70	0.00	104.75	102.96	32.40	0.00	107.80	104.71
24	1.50	0.00	104.94	101.66	101.16	100.82	15.60	0.00	104.73	103.17	15.60	0.00	108.05	104.81
	LOWER MONUMENTAL			ICE HARBOR			MCNARY			PASCO				
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	20.60	0.00	105.57	103.14	20.10	0.00	105.27	103.85	73.90	0.00	103.95	107.08	105.06	000.00
2	20.20	0.00	105.51	103.05	20.80	0.00	105.31	103.79	62.40	0.00	103.87	106.73	105.07	000.00
3	19.60	0.00	105.16	102.93	19.70	0.00	104.96	103.85	83.50	0.00	103.80	106.37	105.15	000.00
4	17.90	0.00	104.75	103.31	19.40	0.00	104.74	103.76	102.20	0.00	103.78	106.28	105.28	000.00
5	20.00	0.00	104.75	103.17	20.50	0.00	104.46	103.67	123.10	0.00	103.78	106.39	105.53	000.00
6	33.60	0.00	104.60	103.60	33.50	0.00	104.43	103.82	144.70	0.00	103.62	106.24	105.50	000.00
7	44.50	0.00	104.22	103.47	42.00	0.00	104.71	103.97	145.60	0.00	103.61	106.23	105.49	000.00
8	50.70	0.00	104.07	103.69	48.80	0.00	104.92	104.15	159.50	0.00	103.67	106.17	105.45	000.00
9	56.60	0.00	103.98	103.55	59.70	0.00	105.30	104.67	161.40	0.00	104.47	106.14	105.46	000.00
10	58.30	0.00	104.39	103.99	61.00	0.00	106.37	104.62	162.10	0.00	105.33	106.32	105.70	000.00
11	53.20	0.00	104.95	104.14	56.70	0.00	105.47	104.92	162.20	0.00	106.16	106.43	106.06	000.00
12	52.60	0.00	105.87	104.47	56.40	0.00	105.23	105.29	161.70	0.00	106.85	106.78	106.15	000.00
13	55.00	0.00	104.85	104.70	57.50	0.00	106.05	105.80	161.10	0.00	107.52	106.85	106.40	000.00
14	45.70	0.00	104.23	105.23	51.20	0.00	108.78	105.60	161.10	0.00	109.07	106.73	106.48	000.00
15	45.20	0.00	104.00	105.05	48.90	0.00	108.35	105.77	161.10	0.00	107.80	106.96	106.39	000.00
16	43.20	0.00	104.07	104.94	48.80	0.00	107.67	105.63	160.90	0.00	108.39	106.90	106.48	000.00
17	43.10	0.00	104.14	104.73	45.90	0.00	106.71	105.54	160.20	0.00	107.62	107.37	106.50	000.00
18	44.30	0.00	103.97	104.72	42.20	0.00	106.83	105.26	161.20	0.00	107.22	107.89	106.62	000.00
19	46.80	0.00	105.16	103.97	44.50	0.00	106.95	105.12	163.00	0.00	106.38	108.13	106.49	000.00
20	47.90	0.00	104.78	103.73	44.70	0.00	106.75	104.83	154.30	0.00	105.55	108.22	106.41	000.00
21	47.40	0.00	105.34	103.76	47.30	0.00	106.07	104.67	133.20	0.00	105.12	107.72	106.38	000.00
22	46.50	0.00	105.92	103.58	46.80	0.00	106.00	104.59	128.80	0.00	104.82	107.29	106.22	000.00
23	30.80	0.00	105.64	103.54	30.20	0.00	105.68	104.43	101.50	0.00	104.79	107.17	106.03	000.00
24	16.20	0.00	105.48	103.57	19.70	0.00	105.39	104.14	74.10	0.00	105.14	107.11	105.74	000.00

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WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

21 MAR 2001

	DWORSHAK				STREAMFLOW				LOWER GRANITE					LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.		ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT		TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.		TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.50	0.00	103.57	:	?UNDEF	?UNDEF	?UNDEF	:	12.70	0.00	101.82	101.89	:	13.70	0.00	105.42	103.92
2	1.50	0.00	103.84	:	?UNDEF	?UNDEF	?UNDEF	:	14.30	0.00	101.52	101.73	:	14.90	0.00	105.67	103.79
3	1.50	0.00	103.70	:	?UNDEF	?UNDEF	?UNDEF	:	12.60	0.00	101.55	101.88	:	13.20	0.00	106.10	103.80
4	1.50	0.00	103.81	:	?UNDEF	?UNDEF	?UNDEF	:	13.00	0.00	101.69	101.91	:	14.70	0.00	106.09	103.77
5	1.50	0.00	103.78	:	?UNDEF	*****	?UNDEF	:	32.90	0.00	101.93	101.85	:	13.20	0.00	105.82	103.77
6	1.50	0.00	103.49	:	?UNDEF	*****	?UNDEF	:	43.50	0.00	102.09	101.99	:	13.90	0.00	105.76	103.69
7	1.50	0.00	103.61	:	?UNDEF	*****	?UNDEF	:	43.90	0.00	102.02	101.93	:	38.10	0.00	105.78	103.96
8	1.50	0.00	103.86	:	?UNDEF	*****	?UNDEF	:	41.20	0.00	102.17	101.95	:	40.50	0.00	105.71	104.08
9	1.50	0.00	104.19	:	*****	*****	*****	:	41.70	0.00	102.18	102.02	:	41.30	0.00	105.69	104.15
10	1.50	0.00	104.32	:	*****	*****	*****	:	41.10	0.00	102.13	102.12	:	41.50	0.00	106.04	104.43
11	1.50	0.00	105.47	:	*****	000.00	*****	:	41.20	0.00	102.54	*****	:	44.30	0.00	106.49	104.75
12	1.50	0.00	106.09	:	*****	000.00	*****	:	41.30	0.00	103.25	102.48	:	41.40	0.00	106.52	105.06
13	1.50	0.00	106.54	:	*****	102.63	000.00	:	41.60	0.00	103.72	102.67	:	41.30	0.00	105.36	105.37
14	1.50	0.00	106.46	:	000.00	103.36	000.00	:	43.40	0.00	103.90	102.59	:	41.30	0.00	105.31	105.19
15	1.50	0.00	106.19	:	000.00	103.66	000.00	:	42.80	0.00	104.58	102.52	:	42.10	0.00	105.34	105.10
16	1.50	0.00	105.86	:	000.00	103.74	000.00	:	43.20	0.00	104.68	102.28	:	41.50	0.00	105.29	104.98
17	1.50	0.00	105.36	:	000.00	103.51	104.17	:	43.10	0.00	103.74	102.18	:	41.40	0.00	105.31	104.95
18	1.50	0.00	104.47	:	000.00	103.01	103.45	:	43.20	0.00	103.04	102.02	:	43.10	0.00	105.02	104.65
19	1.50	0.00	105.36	:	103.46	102.36	102.81	:	44.30	0.00	102.67	101.99	:	42.90	0.00	105.01	104.49
20	1.50	0.00	103.57	:	102.90	101.74	102.05	:	46.30	0.00	102.49	102.11	:	46.90	0.00	104.83	104.70
21	1.50	0.00	103.52	:	102.53	101.39	101.62	:	44.70	0.00	102.45	102.11	:	44.90	0.00	104.71	104.40
22	1.50	0.00	103.65	:	102.21	101.06	101.25	:	44.00	0.00	102.56	102.11	:	44.70	0.00	105.07	104.26
23	1.50	0.00	103.62	:	102.03	100.98	100.95	:	26.00	0.00	102.70	102.14	:	30.90	0.00	105.76	104.26
24	1.50	0.00	103.64	:	101.91	100.94	100.52	:	25.10	0.00	102.32	102.23	:	24.30	0.00	106.57	104.15

HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO	
	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT
1	13.80	0.00	?	UNDEF	102.91	13.20	0.00	105.01	103.41	74.60	0.00	103.36	105.50	000.00
2	15.00	0.00	?	UNDEF	102.51	14.10	0.00	104.78	103.28	72.50	0.00	103.38	105.35	000.00
3	13.40	0.00	?	UNDEF	103.13	14.00	0.00	104.62	103.12	65.60	0.00	103.39	105.25	000.00
4	13.30	0.00	?	UNDEF	103.25	12.50	0.00	104.37	103.13	63.30	0.00	103.38	104.96	000.00
5	13.30	0.00	000.00	102.39	12.60	0.00	104.34	103.04	71.10	0.00	0.00	103.33	104.51	000.00
6	14.00	0.00	001.60	102.23	12.80	0.00	104.13	103.01	107.00	0.00	0.00	103.15	104.45	000.00
7	33.40	0.00	104.37	102.51	20.40	0.00	104.14	103.38	135.10	0.00	0.00	103.24	104.54	000.00
8	42.40	0.00	104.16	103.09	21.20	0.00	104.07	103.79	120.80	0.00	0.00	103.33	104.49	000.00
9	43.60	0.00	103.32	103.08	36.10	0.00	104.18	104.59	112.90	0.00	0.00	103.59	104.47	000.00
10	41.60	0.00	103.87	103.53	40.50	0.00	104.95	104.65	123.00	0.00	0.00	104.11	104.72	000.00
11	41.30	0.00	103.26	103.77	40.40	0.00	106.04	104.85	119.70	0.00	0.00	104.82	104.96	000.00
12	42.80	0.00	103.95	104.62	40.60	0.00	106.34	105.10	118.60	0.00	0.00	105.76	105.08	000.00
13	41.50	0.00	103.88	104.52	41.60	0.00	107.78	105.63	128.60	0.00	0.00	106.41	105.21	000.00
14	41.70	0.00	103.71	104.47	40.60	0.00	107.00	105.67	128.60	0.00	0.00	107.15	105.22	000.00
15	41.00	0.00	103.72	104.42	39.90	0.00	105.62	105.60	129.30	0.00	0.00	107.99	106.11	000.00
16	41.10	0.00	103.51	104.32	39.70	0.00	105.28	105.71	128.90	0.00	0.00	108.05	105.74	000.00
17	42.60	0.00	103.52	104.17	41.10	0.00	105.21	105.39	129.60	0.00	0.00	106.94	108.46	000.00
18	39.80	0.00	103.66	103.60	39.70	0.00	104.92	104.99	150.00	0.00	0.00	106.62	107.59	000.00
19	39.90	0.00	105.39	103.25	40.20	0.00	104.78	104.56	149.30	0.00	0.00	106.26	107.43	000.00
20	50.10	0.00	103.61	103.27	49.90	0.00	105.02	104.39	132.70	0.00	0.00	105.31	107.65	000.00
21	48.90	0.00	105.11	103.09	49.60	0.00	106.37	104.13	111.50	0.00	0.00	104.51	107.64	000.00
22	49.80	0.00	105.88	103.06	51.80	0.00	105.68	104.00	89.10	0.00	0.00	104.08	107.21	000.00
23	44.40	0.00	105.59	103.05	51.30	0.00	105.15	104.01	73.80	0.00	0.00	104.11	107.52	000.00
24	32.00	0.00	105.60	103.06	35.90	0.00	105.03	104.01	74.70	0.00	0.00	104.08	107.24	000.00

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WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

20 MAR 2001

HOUR	DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.40	0.00	106.84	?UNDEF	?UNDEF	?UNDEF	13.40	0.00	101.46	101.77	14.10	0.00	?UNDEF	?UNDEF	
2	1.40	0.00	107.11	?UNDEF	?UNDEF	?UNDEF	15.10	0.00	101.40	101.49	14.20	0.00	?UNDEF	?UNDEF	
3	1.40	0.00	000.00	?UNDEF	?UNDEF	?UNDEF	15.90	0.00	101.43	101.76	12.60	0.00	?UNDEF	?UNDEF	
4	1.40	0.00	107.29	?UNDEF	?UNDEF	?UNDEF	16.90	0.00	101.39	101.45	12.60	0.00	?UNDEF	?UNDEF	
5	1.40	0.00	107.23	?UNDEF	?UNDEF	?UNDEF	37.00	0.00	101.45	101.49	19.80	0.00	?UNDEF	?UNDEF	
6	1.40	0.00	107.22	?UNDEF	?UNDEF	?UNDEF	40.40	0.00	101.25	101.30	29.50	0.00	?UNDEF	?UNDEF	
7	1.40	0.00	107.21	?UNDEF	?UNDEF	?UNDEF	51.60	0.00	101.41	101.45	40.80	0.00	?UNDEF	?UNDEF	
8	1.40	0.00	107.58	?UNDEF	?UNDEF	?UNDEF	41.70	0.00	101.65	101.61	44.90	0.00	?UNDEF	?UNDEF	
9	1.40	0.00	108.01	?UNDEF	?UNDEF	?UNDEF	41.20	0.00	101.96	101.63	39.90	0.00	?UNDEF	?UNDEF	
10	1.40	0.00	108.72	?UNDEF	?UNDEF	?UNDEF	41.30	0.00	102.39	101.59	44.40	0.00	?UNDEF	?UNDEF	
11	1.40	0.00	109.47	?UNDEF	?UNDEF	?UNDEF	38.80	0.00	102.50	101.95	41.00	0.00	?UNDEF	?UNDEF	
12	1.50	0.00	109.98	?UNDEF	?UNDEF	?UNDEF	39.30	0.00	102.70	102.18	39.20	0.00	?UNDEF	?UNDEF	
13	1.50	0.00	110.02	?UNDEF	?UNDEF	?UNDEF	38.60	0.00	102.38	102.28	45.60	0.00	*****	*****	
14	1.50	0.00	108.64	?UNDEF	?UNDEF	?UNDEF	38.70	0.00	102.71	102.21	49.90	0.00	*****	*****	
15	1.50	0.00	107.90	?UNDEF	?UNDEF	?UNDEF	40.00	0.00	103.96	102.15	53.50	0.00	*****	*****	
16	1.50	0.00	107.29	?UNDEF	?UNDEF	?UNDEF	40.10	0.00	103.79	102.07	50.40	0.00	*****	*****	
17	1.50	0.00	106.63	?UNDEF	?UNDEF	?UNDEF	42.50	0.00	103.28	102.02	50.40	0.00	000.00	*****	
18	1.50	0.00	105.98	?UNDEF	?UNDEF	?UNDEF	40.00	0.00	104.10	101.99	52.90	0.00	107.27	000.00	
19	1.50	0.00	106.63	?UNDEF	?UNDEF	?UNDEF	42.30	0.00	102.87	102.22	50.50	0.00	106.31	104.03	
20	1.50	0.00	104.34	?UNDEF	?UNDEF	?UNDEF	43.00	0.00	102.58	102.20	50.70	0.00	105.58	104.23	
21	1.50	0.00	103.76	?UNDEF	?UNDEF	?UNDEF	42.90	0.00	102.26	101.92	52.00	0.00	105.69	104.21	
22	1.50	0.00	103.48	?UNDEF	?UNDEF	?UNDEF	41.30	0.00	102.25	101.76	53.00	0.00	105.42	104.08	
23	1.50	0.00	103.34	?UNDEF	?UNDEF	?UNDEF	21.00	0.00	102.10	102.07	38.50	0.00	105.30	104.11	
24	1.50	0.00	103.48	?UNDEF	?UNDEF	?UNDEF	14.20	0.00	101.87	101.92	16.30	0.00	105.58	104.08	
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT	
1	13.50	0.00	?UNDEF	?UNDEF	14.50	0.00	*****	102.60	62.80	0.00	068.46	102.96	067.23	*****	
2	13.30	0.00	?UNDEF	?UNDEF	13.10	0.00	*****	102.48	58.40	0.00	103.14	102.86	525.09	*****	
3	13.20	0.00	?UNDEF	?UNDEF	12.70	0.00	*****	102.50	62.40	0.00	*****	102.90	568.63	*****	
4	13.30	0.00	?UNDEF	?UNDEF	14.00	0.00	*****	102.46	80.90	0.00	*****	102.71	860.67	*****	
5	13.50	0.00	?UNDEF	?UNDEF	14.00	0.00	*****	102.40	84.80	0.00	*****	102.67	851.24	*****	
6	14.10	0.00	?UNDEF	?UNDEF	13.10	0.00	*****	102.68	100.30	0.00	*****	102.71	924.91	*****	
7	35.50	0.00	?UNDEF	?UNDEF	19.60	0.00	*****	102.94	123.80	0.00	*****	102.70	515.23	000.00	
8	38.30	0.00	?UNDEF	?UNDEF	38.90	0.00	*****	103.28	124.70	0.00	*****	102.66	*****	000.00	
9	38.60	0.00	?UNDEF	*****	38.00	0.00	103.76	104.08	123.50	0.00	*****	102.82	927.52	000.00	
10	42.00	0.00	?UNDEF	*****	44.60	0.00	103.89	104.15	123.90	0.00	*****	102.78	905.54	000.00	
11	42.10	0.00	?UNDEF	*****	43.30	0.00	103.84	104.32	125.30	0.00	104.58	103.11	104.09	000.00	
12	43.90	0.00	?UNDEF	*****	42.30	0.00	103.79	104.53	128.80	0.00	105.82	103.22	104.37	000.00	
13	50.70	0.00	?UNDEF	*****	48.80	0.00	103.77	105.24	132.30	0.00	107.08	103.34	104.47	000.00	
14	52.40	0.00	?UNDEF	*****	49.10	0.00	104.01	104.85	132.20	0.00	108.30	103.51	104.42	000.00	
15	52.50	0.00	?UNDEF	000.00	49.20	0.00	104.18	104.93	131.70	0.00	109.29	103.45	104.47	000.00	
16	53.40	0.00	?UNDEF	104.46	51.60	0.00	104.36	104.86	132.00	0.00	108.58	103.66	104.42	000.00	
17	50.90	0.00	?UNDEF	103.94	49.20	0.00	104.41	104.62	132.40	0.00	107.55	103.66	104.48	000.00	
18	50.90	0.00	?UNDEF	103.53	50.80	0.00	104.44	104.35	133.20	0.00	107.17	104.26	104.37	000.00	
19	50.80	0.00	?UNDEF	103.29	49.40	0.00	104.42	104.06	133.30	0.00	106.89	105.03	104.36	000.00	
20	51.00	0.00	?UNDEF	103.19	49.30	0.00	104.53	103.94	135.10	0.00	105.56	105.04	104.19	000.00	
21	50.80	0.00	?UNDEF	103.12	49.20	0.00	105.01	103.79	135.10	0.00	104.99	104.84	104.04	000.00	
22	50.40	0.00	?UNDEF	103.10	48.80	0.00	105.39	103.66	128.00	0.00	104.09	105.13	104.00	000.00	
23	37.50	0.00	?UNDEF	102.96	40.60	0.00	105.42	103.63	97.80	0.00	103.67	105.51	104.17	000.00	
24	22.50	0.00	?UNDEF	102.66	25.40	0.00	105.42	103.51	88.80	0.00	103.42	105.50	104.15	000.00	

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WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

19 MAR 2001

	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR :	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.50	0.00	107.37	?UNDEF	?UNDEF	?UNDEF	12.60	0.00	102.52	102.60	12.50	0.00	?UNDEF	?UNDEF
2	1.50	0.00	107.39	?UNDEF	?UNDEF	?UNDEF	12.50	0.00	102.58	102.54	12.70	0.00	?UNDEF	?UNDEF
3	1.50	0.00	107.30	?UNDEF	?UNDEF	?UNDEF	12.50	0.00	102.61	102.43	12.40	0.00	?UNDEF	?UNDEF
4	1.50	0.00	107.17	?UNDEF	?UNDEF	?UNDEF	12.50	0.00	102.51	102.55	12.30	0.00	?UNDEF	?UNDEF
5	1.50	0.00	107.05	?UNDEF	?UNDEF	?UNDEF	12.60	0.00	102.61	102.54	12.60	0.00	?UNDEF	?UNDEF
6	1.50	0.00	107.12	?UNDEF	?UNDEF	?UNDEF	19.60	0.00	102.58	102.25	20.30	0.00	?UNDEF	?UNDEF
7	1.50	0.00	106.93	?UNDEF	?UNDEF	?UNDEF	24.60	0.00	102.57	102.21	24.50	0.00	?UNDEF	?UNDEF
8	1.50	0.00	107.14	?UNDEF	?UNDEF	?UNDEF	26.90	0.00	102.44	102.23	24.60	0.00	?UNDEF	?UNDEF
9	1.50	0.00	107.33	?UNDEF	?UNDEF	?UNDEF	26.20	0.00	102.25	102.32	24.70	0.00	?UNDEF	?UNDEF
10	1.50	0.00	107.49	?UNDEF	?UNDEF	?UNDEF	25.70	0.00	102.30	102.48	24.90	0.00	?UNDEF	?UNDEF
11	1.40	0.00	107.53	?UNDEF	?UNDEF	?UNDEF	27.50	0.00	102.22	102.31	25.90	0.00	?UNDEF	?UNDEF
12	1.30	0.00	108.16	?UNDEF	?UNDEF	?UNDEF	27.00	0.00	102.21	102.25	26.40	0.00	?UNDEF	?UNDEF
13	1.30	0.00	109.13	?UNDEF	?UNDEF	?UNDEF	27.00	0.00	102.28	102.32	26.40	0.00	?UNDEF	?UNDEF
14	1.30	0.00	110.32	?UNDEF	?UNDEF	?UNDEF	26.90	0.00	102.30	102.33	26.30	0.00	?UNDEF	?UNDEF
15	1.40	0.00	110.89	?UNDEF	?UNDEF	?UNDEF	30.10	0.00	102.28	102.36	31.10	0.00	?UNDEF	?UNDEF
16	1.40	0.00	110.32	?UNDEF	?UNDEF	?UNDEF	31.10	0.00	102.17	102.19	44.80	0.00	?UNDEF	?UNDEF
17	1.40	0.00	109.12	?UNDEF	?UNDEF	?UNDEF	30.40	0.00	102.18	102.04	42.50	0.00	?UNDEF	?UNDEF
18	1.40	0.00	108.12	?UNDEF	?UNDEF	?UNDEF	34.10	0.00	101.85	102.31	42.10	0.00	?UNDEF	?UNDEF
19	1.40	0.00	109.12	?UNDEF	?UNDEF	?UNDEF	40.90	0.00	101.81	102.29	42.30	0.00	?UNDEF	?UNDEF
20	1.40	0.00	107.04	?UNDEF	?UNDEF	?UNDEF	37.50	0.00	101.77	102.04	45.20	0.00	?UNDEF	?UNDEF
21	1.40	0.00	106.86	?UNDEF	?UNDEF	?UNDEF	38.80	0.00	101.87	101.90	41.60	0.00	?UNDEF	?UNDEF
22	1.40	0.00	106.96	?UNDEF	?UNDEF	?UNDEF	25.50	0.00	101.63	101.73	37.40	0.00	?UNDEF	?UNDEF
23	1.40	0.00	106.90	?UNDEF	?UNDEF	?UNDEF	14.10	0.00	101.46	101.54	16.70	0.00	?UNDEF	?UNDEF
24	1.40	0.00	106.85	?UNDEF	?UNDEF	?UNDEF	15.10	0.00	101.46	101.77	12.90	0.00	?UNDEF	?UNDEF
	LOWER MONUMENTAL			ICE HARBOR			MCNARY			PASCO				
HOUR :	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	14.60	0.00	?UNDEF	?UNDEF	10.30	0.00	104.06	103.12	55.90	0.00	104.88	103.57	103.51	104.12
2	13.20	0.00	?UNDEF	?UNDEF	9.70	0.00	104.06	103.32	63.50	0.00	104.38	103.73	103.67	104.16
3	13.20	0.00	?UNDEF	?UNDEF	9.70	0.00	103.95	103.22	55.40	0.00	104.07	103.61	103.39	104.01
4	13.40	0.00	?UNDEF	?UNDEF	9.70	0.00	103.86	103.15	53.70	0.00	103.54	103.47	103.38	104.04
5	13.20	0.00	?UNDEF	?UNDEF	9.90	0.00	103.84	103.03	55.30	0.00	103.37	103.38	103.46	*****
6	15.90	0.00	?UNDEF	?UNDEF	18.60	0.00	103.65	103.15	89.30	0.00	103.74	103.26	103.22	*****
7	27.00	0.00	?UNDEF	?UNDEF	24.90	0.00	103.43	102.97	121.70	0.00	103.62	103.00	103.08	*****
8	27.30	0.00	?UNDEF	?UNDEF	27.20	0.00	103.40	102.97	114.00	0.00	103.44	102.85	103.05	*****
9	27.40	0.00	?UNDEF	?UNDEF	25.50	0.00	103.22	103.33	111.80	0.00	*****	102.83	102.92	*****
10	27.40	0.00	?UNDEF	?UNDEF	25.40	0.00	103.18	103.31	108.20	0.00	*****	102.87	102.82	*****
11	27.30	0.00	?UNDEF	?UNDEF	30.00	0.00	103.26	103.79	111.10	0.00	*****	103.01	103.17	?UNDEF
12	29.00	0.00	?UNDEF	?UNDEF	32.00	0.00	103.31	104.06	110.70	0.00	*****	103.02	991.31	?UNDEF
13	27.40	0.00	?UNDEF	?UNDEF	30.90	0.00	103.38	104.84	112.70	0.00	068.97	103.01	994.19	?UNDEF
14	27.50	0.00	?UNDEF	?UNDEF	30.50	0.00	103.43	104.75	111.40	0.00	102.98	103.10	986.59	000.00
15	34.20	0.00	?UNDEF	?UNDEF	34.60	0.00	103.52	104.77	121.80	0.00	*****	103.13	996.82	?UNDEF
16	42.20	0.00	?UNDEF	?UNDEF	41.50	0.00	103.45	104.60	125.90	0.00	*****	*****	993.25	?UNDEF
17	42.20	0.00	?UNDEF	?UNDEF	42.20	0.00	103.54	104.20	128.50	0.00	070.83	104.06	*****	?UNDEF
18	47.70	0.00	?UNDEF	?UNDEF	50.50	0.00	103.57	103.75	131.70	0.00	103.68	104.03	*****	000.00
19	55.10	0.00	?UNDEF	?UNDEF	62.90	0.00	103.68	103.46	141.50	0.00	*****	103.80	*****	?UNDEF
20	55.40	0.00	?UNDEF	?UNDEF	64.90	0.00	103.73	103.22	143.50	0.00	*****	103.62	620.12	?UNDEF
21	57.10	0.00	?UNDEF	?UNDEF	63.80	0.00	?UNDEF	103.02	140.70	0.00	068.24	103.43	786.04	?UNDEF
22	55.00	0.00	?UNDEF	?UNDEF	63.10	0.00	?UNDEF	102.91	117.40	0.00	103.43	103.19	818.07	000.00
23	30.10	0.00	?UNDEF	?UNDEF	45.10	0.00	000.00	102.77	78.60	0.00	*****	103.15	304.41	?UNDEF
24	14.30	0.00	?UNDEF	?UNDEF	25.60	0.00	103.48	102.76	57.70	0.00	*****	103.00	395.32	?UNDEF

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HOUR	DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.50	0.00	105.96	?UNDEF	?UNDEF	?UNDEF	12.30	0.00	102.22	101.76	13.20	0.00	?UNDEF	?UNDEF	?UNDEF
2	1.50	0.00	106.09	?UNDEF	?UNDEF	?UNDEF	12.30	0.00	102.13	101.64	13.20	0.00	?UNDEF	?UNDEF	?UNDEF
3	1.50	0.00	107.16	?UNDEF	?UNDEF	?UNDEF	15.90	0.00	101.81	101.77	18.90	0.00	?UNDEF	?UNDEF	?UNDEF
4	1.40	0.00	109.73	?UNDEF	?UNDEF	?UNDEF	14.30	0.00	101.89	101.64	16.90	0.00	?UNDEF	?UNDEF	?UNDEF
5	1.50	0.00	108.73	?UNDEF	?UNDEF	?UNDEF	13.20	0.00	101.85	101.25	13.60	0.00	?UNDEF	?UNDEF	?UNDEF
6	1.50	0.00	107.78	?UNDEF	?UNDEF	?UNDEF	23.80	0.00	101.83	101.55	14.00	0.00	?UNDEF	?UNDEF	?UNDEF
7	1.50	0.00	107.66	?UNDEF	?UNDEF	?UNDEF	24.60	0.00	101.94	101.75	24.30	0.00	?UNDEF	?UNDEF	?UNDEF
8	1.50	0.00	107.91	?UNDEF	?UNDEF	?UNDEF	24.60	0.00	102.07	101.87	24.50	0.00	?UNDEF	?UNDEF	?UNDEF
9	1.50	0.00	108.27	?UNDEF	?UNDEF	?UNDEF	26.70	0.00	102.05	101.81	29.10	0.00	?UNDEF	?UNDEF	?UNDEF
10	1.50	0.00	108.60	?UNDEF	?UNDEF	?UNDEF	29.60	0.00	101.93	101.95	31.10	0.00	?UNDEF	?UNDEF	?UNDEF
11	1.50	0.00	108.24	?UNDEF	?UNDEF	?UNDEF	29.10	0.00	102.10	102.03	32.40	0.00	?UNDEF	?UNDEF	?UNDEF
12	1.50	0.00	107.89	?UNDEF	?UNDEF	?UNDEF	29.10	0.00	102.17	102.11	31.90	0.00	?UNDEF	?UNDEF	?UNDEF
13	1.50	0.00	108.12	?UNDEF	?UNDEF	?UNDEF	28.70	0.00	102.32	102.14	34.90	0.00	?UNDEF	?UNDEF	?UNDEF
14	1.50	0.00	108.01	?UNDEF	?UNDEF	?UNDEF	30.30	0.00	102.72	102.31	33.30	0.00	?UNDEF	?UNDEF	?UNDEF
15	1.50	0.00	107.65	?UNDEF	?UNDEF	?UNDEF	29.20	0.00	102.50	102.55	30.20	0.00	?UNDEF	?UNDEF	?UNDEF
16	1.50	0.00	107.39	?UNDEF	?UNDEF	?UNDEF	28.70	0.00	102.58	102.47	30.30	0.00	?UNDEF	?UNDEF	?UNDEF
17	1.50	0.00	107.35	?UNDEF	?UNDEF	?UNDEF	30.40	0.00	102.54	102.58	31.80	0.00	?UNDEF	?UNDEF	?UNDEF
18	1.50	0.00	107.03	?UNDEF	?UNDEF	?UNDEF	31.20	0.00	102.60	102.77	32.50	0.00	?UNDEF	?UNDEF	?UNDEF
19	1.50	0.00	107.35	?UNDEF	?UNDEF	?UNDEF	31.50	0.00	102.62	103.22	31.80	0.00	?UNDEF	?UNDEF	?UNDEF
20	1.50	0.00	106.49	?UNDEF	?UNDEF	?UNDEF	29.90	0.00	102.61	102.83	33.60	0.00	?UNDEF	?UNDEF	?UNDEF
21	1.50	0.00	106.52	?UNDEF	?UNDEF	?UNDEF	20.00	0.00	102.65	102.75	20.90	0.00	?UNDEF	?UNDEF	?UNDEF
22	1.50	0.00	106.86	?UNDEF	?UNDEF	?UNDEF	13.30	0.00	102.71	102.70	13.70	0.00	?UNDEF	?UNDEF	?UNDEF
23	1.50	0.00	107.19	?UNDEF	?UNDEF	?UNDEF	12.50	0.00	102.57	102.47	12.40	0.00	?UNDEF	?UNDEF	?UNDEF
24	1.50	0.00	107.35	?UNDEF	?UNDEF	?UNDEF	12.40	0.00	102.37	102.35	15.50	0.00	?UNDEF	?UNDEF	?UNDEF

HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO	
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	13.20	0.00	?UNDEF	?UNDEF	12.40	0.00	103.38	102.31	58.00	0.00	103.97	102.70	102.54	103.19
2	13.10	0.00	?UNDEF	?UNDEF	12.40	0.00	103.43	102.35	48.90	0.00	103.19	102.70	102.66	103.03
3	17.20	0.00	?UNDEF	?UNDEF	14.00	0.00	103.33	102.35	54.40	0.00	102.98	102.78	102.73	103.10
4	15.00	0.00	?UNDEF	?UNDEF	12.60	0.00	103.32	102.48	53.20	0.00	102.96	102.78	102.86	102.94
5	13.40	0.00	?UNDEF	?UNDEF	14.10	0.00	103.32	102.46	56.20	0.00	102.98	103.16	102.93	102.94
6	13.60	0.00	?UNDEF	?UNDEF	12.80	0.00	103.31	102.46	56.80	0.00	102.77	103.52	102.79	102.89
7	14.30	0.00	?UNDEF	?UNDEF	13.00	0.00	103.24	102.43	77.60	0.00	102.76	103.33	103.17	102.85
8	26.50	0.00	?UNDEF	?UNDEF	19.20	0.00	103.30	102.64	88.00	0.00	102.73	103.32	103.02	102.88
9	31.50	0.00	?UNDEF	?UNDEF	24.60	0.00	103.53	102.98	103.10	0.00	102.89	103.36	103.29	102.86
10	34.30	0.00	?UNDEF	?UNDEF	31.10	0.00	103.65	103.16	117.20	0.00	103.06	103.41	103.20	103.03
11	34.60	0.00	?UNDEF	?UNDEF	32.70	0.00	103.97	103.38	119.00	0.00	103.76	103.56	103.22	103.34
12	32.90	0.00	?UNDEF	?UNDEF	31.70	0.00	104.13	103.57	117.50	0.00	103.63	103.56	103.42	103.47
13	33.00	0.00	?UNDEF	?UNDEF	31.20	0.00	104.28	103.69	116.60	0.00	103.82	103.76	103.45	103.70
14	34.20	0.00	?UNDEF	?UNDEF	31.10	0.00	104.57	103.92	114.20	0.00	103.91	103.89	103.72	103.93
15	31.90	0.00	?UNDEF	?UNDEF	32.60	0.00	104.52	103.77	113.40	0.00	103.49	104.21	103.68	104.13
16	31.90	0.00	?UNDEF	?UNDEF	32.70	0.00	104.41	103.78	114.40	0.00	103.71	104.29	103.69	104.33
17	31.60	0.00	?UNDEF	?UNDEF	31.10	0.00	104.51	103.83	122.60	0.00	105.03	104.67	103.70	104.53
18	31.60	0.00	?UNDEF	?UNDEF	32.40	0.00	104.59	103.72	125.90	0.00	106.70	104.75	103.65	104.63
19	31.80	0.00	?UNDEF	?UNDEF	32.00	0.00	104.65	103.61	129.10	0.00	106.78	104.52	103.59	104.66
20	35.80	0.00	?UNDEF	?UNDEF	36.20	0.00	104.37	103.48	132.30	0.00	105.88	104.49	103.59	104.64
21	20.10	0.00	?UNDEF	?UNDEF	30.30	0.00	104.25	103.34	102.00	0.00	104.14	104.30	103.42	104.60
22	13.80	0.00	?UNDEF	?UNDEF	17.00	0.00	104.02	103.43	84.90	0.00	103.42	104.07	103.37	104.53
23	13.20	0.00	?UNDEF	?UNDEF	10.40	0.00	104.01	103.18	54.70	0.00	103.10	103.98	103.41	104.44
24	13.10	0.00	?UNDEF	?UNDEF	11.70	0.00	104.11	103.23	56.70	0.00	103.54	103.83	103.51	104.44

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	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.50	0.00	105.62	?UNDEF	?UNDEF	?UNDEF	13.50	0.00	102.04	102.25	13.70	0.00	?UNDEF	?UNDEF
2	1.50	0.00	105.69	?UNDEF	?UNDEF	?UNDEF	13.50	0.00	102.07	102.11	14.00	0.00	?UNDEF	?UNDEF
3	1.50	0.00	105.72	?UNDEF	?UNDEF	?UNDEF	13.50	0.00	101.91	101.95	13.90	0.00	?UNDEF	?UNDEF
4	1.50	0.00	105.80	?UNDEF	?UNDEF	?UNDEF	13.70	0.00	101.87	101.77	13.90	0.00	?UNDEF	?UNDEF
5	1.50	0.00	105.89	?UNDEF	?UNDEF	?UNDEF	14.30	0.00	101.85	101.74	14.00	0.00	?UNDEF	?UNDEF
6	1.50	0.00	105.87	?UNDEF	?UNDEF	?UNDEF	26.60	0.00	101.93	101.87	14.40	0.00	?UNDEF	?UNDEF
7	1.50	0.00	106.00	?UNDEF	?UNDEF	?UNDEF	32.80	0.00	101.90	101.99	27.30	0.00	?UNDEF	?UNDEF
8	1.50	0.00	106.12	?UNDEF	?UNDEF	?UNDEF	33.20	0.00	102.04	101.95	33.30	0.00	?UNDEF	?UNDEF
9	1.50	0.00	106.48	?UNDEF	?UNDEF	?UNDEF	33.90	0.00	102.01	101.91	33.70	0.00	?UNDEF	?UNDEF
10	1.50	0.00	106.93	?UNDEF	?UNDEF	?UNDEF	33.40	0.00	102.19	102.07	33.80	0.00	?UNDEF	?UNDEF
11	1.50	0.00	107.47	?UNDEF	?UNDEF	?UNDEF	33.30	0.00	102.37	102.14	34.00	0.00	?UNDEF	?UNDEF
12	1.50	0.00	108.09	?UNDEF	?UNDEF	?UNDEF	32.90	0.00	102.24	102.27	33.70	0.00	?UNDEF	?UNDEF
13	1.50	0.00	108.57	?UNDEF	?UNDEF	?UNDEF	32.80	0.00	102.54	102.30	34.30	0.00	?UNDEF	?UNDEF
14	1.50	0.00	108.60	?UNDEF	?UNDEF	?UNDEF	33.20	0.00	102.56	102.33	34.40	0.00	?UNDEF	?UNDEF
15	1.50	0.00	108.20	?UNDEF	?UNDEF	?UNDEF	28.60	0.00	102.58	102.37	33.80	0.00	?UNDEF	?UNDEF
16	1.50	0.00	107.78	?UNDEF	?UNDEF	?UNDEF	28.40	0.00	102.83	102.34	33.90	0.00	?UNDEF	?UNDEF
17	1.50	0.00	107.37	?UNDEF	?UNDEF	?UNDEF	28.40	0.00	102.83	102.22	33.80	0.00	?UNDEF	?UNDEF
18	1.50	0.00	106.77	?UNDEF	?UNDEF	?UNDEF	28.40	0.00	102.52	102.11	33.70	0.00	?UNDEF	?UNDEF
19	1.50	0.00	107.37	?UNDEF	?UNDEF	?UNDEF	31.70	0.00	102.27	102.06	34.90	0.00	?UNDEF	?UNDEF
20	1.50	0.00	106.12	?UNDEF	?UNDEF	?UNDEF	31.20	0.00	102.29	101.92	35.10	0.00	?UNDEF	?UNDEF
21	1.50	0.00	105.94	?UNDEF	?UNDEF	?UNDEF	31.50	0.00	102.37	102.04	35.10	0.00	?UNDEF	?UNDEF
22	1.50	0.00	105.90	?UNDEF	?UNDEF	?UNDEF	32.30	0.00	102.49	102.12	34.40	0.00	?UNDEF	?UNDEF
23	1.50	0.00	105.82	?UNDEF	?UNDEF	?UNDEF	18.30	0.00	102.45	102.14	18.80	0.00	?UNDEF	?UNDEF
24	1.40	0.00	105.90	?UNDEF	?UNDEF	?UNDEF	12.80	0.00	102.28	101.83	13.50	0.00	?UNDEF	?UNDEF
	LOWER MONUMENTAL			ICE HARBOR			MCNARY			PASCO				
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	14.10	0.00	?UNDEF	?UNDEF	12.80	0.00	103.46	102.64	95.70	0.00	103.74	102.72	102.66	102.55
2	13.90	0.00	?UNDEF	?UNDEF	12.60	0.00	103.48	102.50	95.40	0.00	103.58	102.69	102.82	102.43
3	13.90	0.00	?UNDEF	?UNDEF	12.50	0.00	103.34	102.36	100.30	0.00	103.50	102.77	102.72	102.29
4	13.90	0.00	?UNDEF	?UNDEF	12.20	0.00	103.30	102.32	95.90	0.00	103.48	102.71	102.54	102.13
5	13.90	0.00	?UNDEF	?UNDEF	12.20	0.00	103.31	102.34	95.40	0.00	103.33	102.71	102.39	102.14
6	13.90	0.00	?UNDEF	?UNDEF	12.70	0.00	103.28	102.32	96.80	0.00	103.16	102.68	102.36	101.97
7	14.50	0.00	?UNDEF	?UNDEF	18.30	0.00	103.26	102.30	119.20	0.00	102.89	102.67	102.52	101.95
8	33.50	0.00	?UNDEF	?UNDEF	30.70	0.00	103.22	102.59	131.10	0.00	102.84	102.78	102.57	101.91
9	38.90	0.00	?UNDEF	?UNDEF	38.90	0.00	103.23	102.88	130.10	0.00	103.35	102.76	102.73	102.07
10	38.60	0.00	?UNDEF	?UNDEF	39.10	0.00	103.38	103.11	126.10	0.00	103.64	102.77	102.73	102.32
11	38.50	0.00	?UNDEF	?UNDEF	39.20	0.00	103.35	103.35	124.10	0.00	104.20	103.07	102.70	102.48
12	38.50	0.00	?UNDEF	?UNDEF	40.00	0.00	103.40	103.53	115.90	0.00	105.01	103.11	103.05	102.73
13	38.40	0.00	?UNDEF	?UNDEF	39.20	0.00	103.39	103.81	115.70	0.00	105.19	103.39	103.17	103.05
14	38.50	0.00	?UNDEF	?UNDEF	39.10	0.00	103.59	103.73	123.90	0.00	106.03	103.34	103.23	103.48
15	38.60	0.00	?UNDEF	?UNDEF	39.00	0.00	103.50	103.71	125.30	0.00	105.16	103.77	103.29	103.75
16	40.60	0.00	?UNDEF	?UNDEF	41.50	0.00	103.48	103.44	126.00	0.00	104.37	103.63	103.19	103.93
17	40.10	0.00	?UNDEF	?UNDEF	41.60	0.00	103.80	103.37	127.00	0.00	103.74	103.80	103.20	104.09
18	39.70	0.00	?UNDEF	?UNDEF	42.40	0.00	103.78	103.22	127.40	0.00	103.45	103.73	103.09	104.23
19	40.00	0.00	?UNDEF	?UNDEF	44.30	0.00	103.69	103.00	139.60	0.00	103.37	103.71	102.86	104.03
20	40.40	0.00	?UNDEF	?UNDEF	44.50	0.00	103.71	102.83	139.50	0.00	103.20	103.51	102.85	103.84
21	39.80	0.00	?UNDEF	?UNDEF	44.20	0.00	103.64	102.75	140.80	0.00	103.10	103.18	102.71	103.78
22	30.30	0.00	?UNDEF	?UNDEF	33.00	0.00	103.61	102.64	139.20	0.00	103.09	103.14	102.67	103.47
23	16.10	0.00	?UNDEF	?UNDEF	13.70	0.00	103.44	102.56	116.80	0.00	102.92	102.95	102.62	103.42
24	13.50	0.00	?UNDEF	?UNDEF	12.60	0.00	103.43	102.48	82.40	0.00	104.08	102.85	102.66	103.42

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	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR :	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1 :	1.50	0.00	105.21	?UNDEF	?UNDEF	?UNDEF	12.40	0.00	103.02	103.49	12.50	0.00	?UNDEF	?UNDEF
2 :	1.50	0.00	105.16	?UNDEF	?UNDEF	?UNDEF	12.40	0.00	102.95	103.30	12.40	0.00	?UNDEF	?UNDEF
3 :	1.50	0.00	105.23	?UNDEF	?UNDEF	?UNDEF	12.60	0.00	102.73	103.22	12.30	0.00	?UNDEF	?UNDEF
4 :	1.50	0.00	105.28	?UNDEF	?UNDEF	?UNDEF	13.00	0.00	102.67	102.96	12.30	0.00	?UNDEF	?UNDEF
5 :	1.50	0.00	105.35	?UNDEF	?UNDEF	?UNDEF	26.60	0.00	102.59	102.89	12.70	0.00	?UNDEF	?UNDEF
6 :	1.50	0.00	105.38	?UNDEF	?UNDEF	?UNDEF	37.40	0.00	102.52	102.83	27.40	0.00	?UNDEF	?UNDEF
7 :	1.50	0.00	105.33	?UNDEF	?UNDEF	?UNDEF	40.70	0.00	102.47	102.75	38.90	0.00	?UNDEF	?UNDEF
8 :	1.50	0.00	105.51	?UNDEF	?UNDEF	?UNDEF	41.50	0.00	102.34	102.68	41.30	0.00	?UNDEF	?UNDEF
9 :	1.50	0.00	105.60	?UNDEF	?UNDEF	?UNDEF	40.70	0.00	102.36	102.64	41.30	0.00	?UNDEF	?UNDEF
10 :	1.50	0.00	105.80	?UNDEF	?UNDEF	?UNDEF	40.60	0.00	102.36	102.66	41.20	0.00	?UNDEF	?UNDEF
11 :	1.50	0.00	106.39	?UNDEF	?UNDEF	?UNDEF	40.50	0.00	102.52	102.67	41.40	0.00	?UNDEF	?UNDEF
12 :	1.50	0.00	106.78	?UNDEF	?UNDEF	?UNDEF	40.50	0.00	102.64	102.80	44.30	0.00	?UNDEF	?UNDEF
13 :	1.50	0.00	106.78	?UNDEF	?UNDEF	?UNDEF	41.10	0.00	102.56	102.74	44.30	0.00	?UNDEF	?UNDEF
14 :	1.50	0.00	106.95	?UNDEF	?UNDEF	?UNDEF	38.60	0.00	102.63	102.78	44.10	0.00	?UNDEF	?UNDEF
15 :	1.50	0.00	106.68	?UNDEF	?UNDEF	?UNDEF	38.50	0.00	102.64	102.63	44.80	0.00	?UNDEF	?UNDEF
16 :	1.50	0.00	106.44	?UNDEF	?UNDEF	?UNDEF	38.50	0.00	102.66	102.66	44.40	0.00	?UNDEF	?UNDEF
17 :	1.50	0.00	106.11	?UNDEF	?UNDEF	?UNDEF	38.50	0.00	102.68	102.62	44.40	0.00	?UNDEF	?UNDEF
18 :	1.50	0.00	105.97	?UNDEF	?UNDEF	?UNDEF	40.20	0.00	102.51	102.57	41.00	0.00	?UNDEF	?UNDEF
19 :	1.50	0.00	106.11	?UNDEF	?UNDEF	?UNDEF	39.70	0.00	102.25	102.55	40.80	0.00	?UNDEF	?UNDEF
20 :	1.50	0.00	105.50	?UNDEF	?UNDEF	?UNDEF	39.20	0.00	102.11	102.43	40.80	0.00	?UNDEF	?UNDEF
21 :	1.50	0.00	105.51	?UNDEF	?UNDEF	?UNDEF	29.70	0.00	102.11	102.30	40.60	0.00	?UNDEF	?UNDEF
22 :	1.50	0.00	105.48	?UNDEF	?UNDEF	?UNDEF	29.10	0.00	102.00	102.35	30.00	0.00	?UNDEF	?UNDEF
23 :	1.50	0.00	105.62	?UNDEF	?UNDEF	?UNDEF	28.90	0.00	102.12	102.15	28.70	0.00	?UNDEF	?UNDEF
24 :	1.50	0.00	105.63	?UNDEF	?UNDEF	?UNDEF	14.40	0.00	102.03	102.33	15.00	0.00	?UNDEF	?UNDEF

	LOWER MONUMENTAL			ICE HARBOR			MCNARY			PASCO				
HOUR :	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1 :	13.60	0.00	?UNDEF	?UNDEF	14.10	0.00	103.33	102.49	100.00	0.00	103.63	103.63	103.34	102.54
2 :	13.80	0.00	?UNDEF	?UNDEF	12.50	0.00	103.26	102.31	87.30	0.00	103.37	103.56	103.11	102.34
3 :	13.50	0.00	?UNDEF	?UNDEF	12.50	0.00	103.22	102.25	89.20	0.00	103.20	103.47	103.05	102.27
4 :	13.40	0.00	?UNDEF	?UNDEF	12.40	0.00	103.17	102.05	115.30	0.00	103.13	103.44	102.99	102.10
5 :	13.30	0.00	?UNDEF	?UNDEF	12.60	0.00	103.11	101.99	110.80	0.00	102.90	103.40	102.88	101.91
6 :	14.40	0.00	?UNDEF	?UNDEF	12.60	0.00	103.03	101.91	138.30	0.00	102.72	103.16	102.68	101.69
7 :	28.50	0.00	?UNDEF	?UNDEF	18.20	0.00	103.02	102.01	141.50	0.00	102.69	102.97	102.77	101.53
8 :	40.70	0.00	?UNDEF	?UNDEF	30.30	0.00	102.92	102.16	134.90	0.00	102.78	102.99	102.88	101.48
9 :	42.00	0.00	?UNDEF	?UNDEF	41.00	0.00	102.89	102.84	134.10	0.00	103.25	102.95	102.88	101.46
10 :	41.50	0.00	?UNDEF	?UNDEF	41.80	0.00	103.05	102.94	126.80	0.00	103.81	102.97	103.02	101.77
11 :	41.30	0.00	?UNDEF	?UNDEF	42.00	0.00	103.04	103.07	125.70	0.00	103.72	103.15	103.05	102.31
12 :	42.00	0.00	?UNDEF	?UNDEF	47.70	0.00	103.11	103.39	129.30	0.00	103.61	103.20	103.10	102.57
13 :	46.10	0.00	?UNDEF	?UNDEF	47.30	0.00	103.32	103.70	129.10	0.00	103.59	103.18	103.21	102.96
14 :	46.50	0.00	?UNDEF	?UNDEF	47.30	0.00	103.51	103.48	130.60	0.00	103.80	103.35	103.25	103.12
15 :	46.30	0.00	?UNDEF	?UNDEF	47.10	0.00	103.51	103.35	127.90	0.00	103.94	103.20	103.15	103.34
16 :	48.60	0.00	?UNDEF	?UNDEF	51.40	0.00	103.53	103.38	130.20	0.00	103.96	103.26	103.04	103.58
17 :	49.80	0.00	?UNDEF	?UNDEF	51.50	0.00	103.60	103.27	131.20	0.00	104.03	103.30	102.99	103.61
18 :	48.80	0.00	?UNDEF	?UNDEF	52.40	0.00	103.73	103.15	132.00	0.00	104.05	103.19	102.87	103.62
19 :	48.60	0.00	?UNDEF	?UNDEF	51.30	0.00	103.69	102.98	133.80	0.00	103.86	103.00	102.69	103.48
20 :	41.40	0.00	?UNDEF	?UNDEF	42.70	0.00	103.55	102.84	129.20	0.00	103.89	103.01	102.69	103.34
21 :	40.80	0.00	?UNDEF	?UNDEF	42.00	0.00	103.56	102.88	109.70	0.00	103.70	102.86	102.69	103.20
22 :	40.60	0.00	?UNDEF	?UNDEF	41.90	0.00	103.58	102.75	108.50	0.00	103.59	102.82	102.68	103.22
23 :	40.00	0.00	?UNDEF	?UNDEF	41.40	0.00	103.44	102.74	108.70	0.00	103.71	102.86	102.65	103.05
24 :	16.70	0.00	?UNDEF	?UNDEF	24.40	0.00	103.44	102.75	87.90	0.00	103.83	102.84	102.68	103.05

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WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

15 MAR 2001

	DWORKSHAK			:	STREAMFLOW			:	LOWER GRANITE				:	LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPIILL KCFS	GAS %SAT TAILW.	:	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	:	TOTAL DISCH KCFS	SPIILL KCFS	GAS FB	%SAT TAILW.	:	TOTAL DISCH KCFS	SPIILL KCFS	GAS FB	%SAT. TAILW.
1	1.50	0.00	104.33	:	?UNDEF	?UNDEF	?UNDEF	:	13.10	0.00	102.77	102.80	:	13.00	0.00	?UNDEF	?UNDEF
2	1.50	0.00	104.19	:	?UNDEF	?UNDEF	?UNDEF	:	13.00	0.00	102.77	102.70	:	12.30	0.00	?UNDEF	?UNDEF
3	1.50	0.00	104.37	:	?UNDEF	?UNDEF	?UNDEF	:	12.70	0.00	102.93	102.89	:	12.30	0.00	?UNDEF	?UNDEF
4	1.50	0.00	104.37	:	?UNDEF	?UNDEF	?UNDEF	:	12.80	0.00	103.25	102.77	:	12.30	0.00	?UNDEF	?UNDEF
5	1.50	0.00	104.53	:	?UNDEF	?UNDEF	?UNDEF	:	13.50	0.00	103.43	102.83	:	13.70	0.00	?UNDEF	?UNDEF
6	1.50	0.00	104.48	:	?UNDEF	?UNDEF	?UNDEF	:	31.00	0.00	103.35	103.04	:	30.70	0.00	?UNDEF	?UNDEF
7	1.50	0.00	104.67	:	?UNDEF	?UNDEF	?UNDEF	:	32.50	0.00	103.46	103.26	:	34.00	0.00	?UNDEF	?UNDEF
8	1.50	0.00	105.00	:	?UNDEF	?UNDEF	?UNDEF	:	33.70	0.00	103.49	103.67	:	34.40	0.00	?UNDEF	?UNDEF
9	1.50	0.00	105.43	:	?UNDEF	?UNDEF	?UNDEF	:	32.10	0.00	103.51	103.55	:	34.50	0.00	?UNDEF	?UNDEF
10	1.50	0.00	105.97	:	?UNDEF	?UNDEF	?UNDEF	:	31.90	0.00	103.54	103.60	:	33.20	0.00	?UNDEF	?UNDEF
11	1.50	0.00	106.50	:	?UNDEF	?UNDEF	?UNDEF	:	31.60	0.00	103.52	103.65	:	32.90	0.00	?UNDEF	?UNDEF
12	1.50	0.00	106.87	:	?UNDEF	?UNDEF	?UNDEF	:	32.50	0.00	103.68	103.71	:	33.10	0.00	?UNDEF	?UNDEF
13	1.50	0.00	107.41	:	?UNDEF	?UNDEF	?UNDEF	:	32.00	0.00	103.90	103.82	:	33.20	0.00	?UNDEF	?UNDEF
14	1.50	0.00	107.53	:	?UNDEF	?UNDEF	?UNDEF	:	32.10	0.00	103.95	103.75	:	32.90	0.00	?UNDEF	?UNDEF
15	1.50	0.00	107.25	:	?UNDEF	?UNDEF	?UNDEF	:	32.30	0.00	103.89	104.88	:	33.00	0.00	?UNDEF	?UNDEF
16	1.50	0.00	106.75	:	?UNDEF	?UNDEF	?UNDEF	:	32.00	0.00	104.24	104.55	:	33.50	0.00	?UNDEF	?UNDEF
17	1.50	0.00	106.40	:	?UNDEF	?UNDEF	?UNDEF	:	32.80	0.00	103.85	104.16	:	34.50	0.00	?UNDEF	?UNDEF
18	1.50	0.00	106.04	:	?UNDEF	?UNDEF	?UNDEF	:	32.30	0.00	103.57	104.07	:	34.40	0.00	?UNDEF	?UNDEF
19	1.50	0.00	106.40	:	?UNDEF	?UNDEF	?UNDEF	:	32.20	0.00	104.06	103.93	:	35.00	0.00	?UNDEF	?UNDEF
20	1.50	0.00	105.43	:	?UNDEF	?UNDEF	?UNDEF	:	32.30	0.00	103.89	103.80	:	34.40	0.00	?UNDEF	?UNDEF
21	1.50	0.00	105.28	:	?UNDEF	?UNDEF	?UNDEF	:	32.20	0.00	103.65	103.84	:	30.50	0.00	?UNDEF	?UNDEF
22	1.50	0.00	105.13	:	?UNDEF	?UNDEF	?UNDEF	:	32.10	0.00	103.49	103.80	:	29.90	0.00	?UNDEF	?UNDEF
23	1.50	0.00	105.13	:	?UNDEF	?UNDEF	?UNDEF	:	13.30	0.00	103.34	103.81	:	13.60	0.00	?UNDEF	?UNDEF
24	1.50	0.00	105.12	:	?UNDEF	?UNDEF	?UNDEF	:	12.20	0.00	103.18	103.79	:	12.50	0.00	?UNDEF	?UNDEF
:																	
	LOWER MONUMENTAL				:	ICE HARBOR				:	MCNARY				:	PASCO	
HOUR	TOTAL DISCH KCFS	SPIILL KCFS	GAS FB	%SAT. TAILW.	:	TOTAL DISCH KCFS	SPIILL KCFS	GAS FB	%SAT. TAILW.	:	TOTAL DISCH KCFS	SPIILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	:	GAS % SAT
1	13.60	0.00	?UNDEF	?UNDEF	:	13.00	0.00	102.76	101.94	:	79.70	0.00	103.33	102.60	102.90	:	102.62
2	13.40	0.00	?UNDEF	?UNDEF	:	12.60	0.00	102.79	101.84	:	78.10	0.00	103.08	103.01	102.85	:	102.54
3	13.50	0.00	?UNDEF	?UNDEF	:	12.60	0.00	102.84	101.91	:	86.90	0.00	102.89	103.34	102.89	:	102.59
4	13.70	0.00	?UNDEF	?UNDEF	:	12.60	0.00	102.94	101.84	:	101.50	0.00	103.08	103.39	103.09	:	102.53
5	14.10	0.00	?UNDEF	?UNDEF	:	13.50	0.00	102.80	101.84	:	127.40	0.00	103.26	103.33	103.48	:	102.45
6	30.80	0.00	?UNDEF	?UNDEF	:	29.90	0.00	102.90	102.02	:	133.90	0.00	103.80	103.25	103.27	:	102.47
7	33.50	0.00	?UNDEF	?UNDEF	:	30.60	0.00	103.03	102.18	:	126.90	0.00	103.73	103.25	103.34	:	102.39
8	33.70	0.00	?UNDEF	?UNDEF	:	33.70	0.00	103.06	102.39	:	115.90	0.00	103.60	103.34	103.33	:	102.42
9	33.90	0.00	?UNDEF	?UNDEF	:	32.60	0.00	103.22	102.63	:	121.10	0.00	103.78	103.56	103.37	:	102.43
10	33.60	0.00	?UNDEF	?UNDEF	:	32.30	0.00	103.26	102.78	:	118.00	0.00	103.79	103.76	103.42	:	102.60
11	34.00	0.00	?UNDEF	?UNDEF	:	33.00	0.00	103.43	102.89	:	115.10	0.00	103.99	103.77	103.61	:	102.76
12	34.10	0.00	?UNDEF	?UNDEF	:	32.30	0.00	103.87	103.10	:	116.50	0.00	104.00	103.68	103.62	:	102.93
13	33.40	0.00	?UNDEF	?UNDEF	:	30.40	0.00	103.91	103.16	:	116.50	0.00	104.11	103.79	103.76	:	103.13
14	33.30	0.00	?UNDEF	?UNDEF	:	30.20	0.00	103.75	103.21	:	121.50	0.00	104.08	103.99	103.96	:	103.23
15	30.20	0.00	?UNDEF	?UNDEF	:	28.70	0.00	103.53	103.27	:	126.40	0.00	105.05	103.94	103.87	:	103.46
16	29.50	0.00	?UNDEF	?UNDEF	:	28.60	0.00	103.61	103.32	:	123.50	0.00	105.91	103.98	103.79	:	103.48
17	28.60	0.00	?UNDEF	?UNDEF	:	28.60	0.00	103.64	103.20	:	129.50	0.00	106.10	104.05	103.82	:	103.54
18	29.20	0.00	?UNDEF	?UNDEF	:	29.00	0.00	103.71	103.11	:	131.60	0.00	105.88	104.09	103.78	:	103.59
19	35.80	0.00	?UNDEF	?UNDEF	:	28.70	0.00	103.60	103.18	:	136.50	0.00	104.98	103.96	103.79	:	103.52
20	34.60	0.00	?UNDEF	?UNDEF	:	28.60	0.00	103.64	103.08	:	140.00	0.00	104.75	103.89	103.68	:	103.43
21	34.60	0.00	?UNDEF	?UNDEF	:	28.50	0.00	103.62	102.90	:	139.70	0.00	104.15	103.81	103.78	:	103.34
22	34.20	0.00	?UNDEF	?UNDEF	:	28.10	0.00	103.59	102.89	:	135.20	0.00	104.27	103.78	103.58	:	103.18
23	25.90	0.00	?UNDEF	?UNDEF	:	24.60	0.00	103.67	102.80	:	111.00	0.00	104.04	103.79	103.50	:	102.97
24	14.20	0.00	?UNDEF	?UNDEF	:	18.50	0.00	103.59	102.62	:	105.90	0.00	103.83	103.73	103.43	:	102.97

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WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

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HOUR	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.50	0.00	105.36	?UNDEF	?UNDEF	?UNDEF	20.10	0.00	103.77	103.55	20.30	0.00	?UNDEF	?UNDEF
2	1.50	0.00	105.38	?UNDEF	?UNDEF	?UNDEF	19.80	0.00	103.66	103.42	14.80	0.00	?UNDEF	?UNDEF
3	1.50	0.00	105.14	?UNDEF	?UNDEF	?UNDEF	19.50	0.00	103.61	103.38	14.40	0.00	?UNDEF	?UNDEF
4	1.50	0.00	104.89	?UNDEF	?UNDEF	?UNDEF	19.90	0.00	103.64	103.26	15.80	0.00	?UNDEF	?UNDEF
5	1.50	0.00	104.82	?UNDEF	?UNDEF	?UNDEF	30.60	0.00	103.65	103.19	25.30	0.00	?UNDEF	?UNDEF
6	1.50	0.00	104.80	?UNDEF	?UNDEF	?UNDEF	35.60	0.00	103.58	103.20	33.70	0.00	?UNDEF	?UNDEF
7	1.50	0.00	104.99	?UNDEF	?UNDEF	?UNDEF	39.50	0.00	103.34	103.13	40.50	0.00	?UNDEF	?UNDEF
8	1.50	0.00	105.15	?UNDEF	?UNDEF	?UNDEF	40.10	0.00	103.30	103.34	40.20	0.00	?UNDEF	?UNDEF
9	1.50	0.00	105.35	?UNDEF	?UNDEF	?UNDEF	41.60	0.00	103.23	103.39	39.60	0.00	?UNDEF	?UNDEF
10	1.50	0.00	105.80	?UNDEF	?UNDEF	?UNDEF	33.00	0.00	103.19	103.33	38.60	0.00	?UNDEF	?UNDEF
11	1.50	0.00	106.20	?UNDEF	?UNDEF	?UNDEF	31.20	0.00	103.29	103.35	32.50	0.00	?UNDEF	?UNDEF
12	1.50	0.00	106.19	?UNDEF	?UNDEF	?UNDEF	30.60	0.00	103.29	103.35	32.70	0.00	?UNDEF	?UNDEF
13	1.50	0.00	106.20	?UNDEF	?UNDEF	?UNDEF	30.50	0.00	103.31	103.39	32.10	0.00	?UNDEF	?UNDEF
14	1.50	0.00	106.26	?UNDEF	?UNDEF	?UNDEF	30.60	0.00	103.27	103.43	32.10	0.00	?UNDEF	?UNDEF
15	1.50	0.00	106.30	?UNDEF	?UNDEF	?UNDEF	30.60	0.00	103.15	103.46	32.10	0.00	?UNDEF	?UNDEF
16	1.50	0.00	106.48	?UNDEF	?UNDEF	?UNDEF	31.10	0.00	103.18	103.37	32.10	0.00	?UNDEF	?UNDEF
17	1.50	0.00	105.94	?UNDEF	?UNDEF	?UNDEF	30.80	0.00	103.07	103.43	32.30	0.00	?UNDEF	?UNDEF
18	1.50	0.00	105.28	?UNDEF	?UNDEF	?UNDEF	39.30	0.00	103.13	103.30	39.70	0.00	?UNDEF	?UNDEF
19	1.50	0.00	105.94	?UNDEF	?UNDEF	?UNDEF	40.00	0.00	103.26	103.13	40.20	0.00	?UNDEF	?UNDEF
20	1.50	0.00	104.60	?UNDEF	?UNDEF	?UNDEF	40.00	0.00	103.22	103.14	40.10	0.00	?UNDEF	?UNDEF
21	1.50	0.00	104.29	?UNDEF	?UNDEF	?UNDEF	41.00	0.00	103.22	103.01	40.20	0.00	?UNDEF	?UNDEF
22	1.50	0.00	104.17	?UNDEF	?UNDEF	?UNDEF	39.40	0.00	102.78	103.02	39.30	0.00	?UNDEF	?UNDEF
23	1.50	0.00	104.17	?UNDEF	?UNDEF	?UNDEF	21.20	0.00	102.80	103.01	20.60	0.00	?UNDEF	?UNDEF
24	1.50	0.00	104.29	?UNDEF	?UNDEF	?UNDEF	19.70	0.00	102.87	102.93	19.60	0.00	?UNDEF	?UNDEF
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO	
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	20.10	0.00	?UNDEF	?UNDEF	19.40	0.00	103.00	101.88	89.40	0.00	103.69	103.08	103.01	101.08
2	14.50	0.00	?UNDEF	?UNDEF	18.00	0.00	102.76	101.77	89.80	0.00	103.54	102.83	102.75	100.94
3	14.20	0.00	?UNDEF	?UNDEF	18.00	0.00	102.68	101.67	108.90	0.00	103.32	102.84	102.64	100.84
4	14.70	0.00	?UNDEF	?UNDEF	18.20	0.00	102.59	101.60	118.50	0.00	103.05	102.72	102.67	100.71
5	25.00	0.00	?UNDEF	?UNDEF	24.50	0.00	102.48	101.51	132.80	0.00	102.97	102.47	102.45	100.68
6	34.70	0.00	?UNDEF	?UNDEF	31.90	0.00	102.43	101.43	140.90	0.00	102.97	102.44	102.42	100.45
7	40.10	0.00	?UNDEF	?UNDEF	39.20	0.00	102.39	101.68	144.20	0.00	102.90	102.30	102.47	100.41
8	40.50	0.00	?UNDEF	?UNDEF	40.60	0.00	102.36	101.72	135.60	0.00	103.00	102.28	102.50	100.43
9	40.90	0.00	?UNDEF	?UNDEF	41.90	0.00	102.32	102.07	130.70	0.00	103.21	102.33	102.55	100.46
10	40.60	0.00	?UNDEF	?UNDEF	41.90	0.00	102.27	102.01	98.70	0.00	103.43	102.58	102.64	100.71
11	40.50	0.00	?UNDEF	?UNDEF	43.00	0.00	102.28	102.23	109.00	0.00	103.70	102.63	103.07	100.97
12	41.40	0.00	?UNDEF	?UNDEF	41.20	0.00	102.28	102.64	117.80	0.00	103.58	102.63	103.21	101.25
13	40.80	0.00	?UNDEF	?UNDEF	41.20	0.00	102.37	103.08	129.00	0.00	103.66	102.57	103.28	101.68
14	40.90	0.00	?UNDEF	?UNDEF	41.20	0.00	102.44	102.82	130.50	0.00	104.03	102.68	103.22	102.30
15	40.50	0.00	?UNDEF	?UNDEF	40.80	0.00	102.48	103.02	128.10	0.00	104.35	102.86	103.73	102.79
16	31.90	0.00	?UNDEF	?UNDEF	32.80	0.00	102.42	102.97	129.30	0.00	104.55	103.05	103.38	103.09
17	32.00	0.00	?UNDEF	?UNDEF	32.20	0.00	102.46	102.81	150.20	0.00	104.59	103.14	103.29	103.43
18	39.80	0.00	?UNDEF	?UNDEF	41.20	0.00	102.48	102.67	165.70	0.00	104.74	103.11	103.04	103.55
19	40.10	0.00	?UNDEF	?UNDEF	41.70	0.00	102.48	102.41	164.10	0.00	104.74	103.10	102.90	103.45
20	39.90	0.00	?UNDEF	?UNDEF	41.80	0.00	102.59	102.12	161.80	0.00	104.52	102.90	102.85	103.21
21	39.90	0.00	?UNDEF	?UNDEF	41.80	0.00	102.55	102.08	128.20	0.00	104.11	102.75	102.82	102.90
22	38.10	0.00	?UNDEF	?UNDEF	41.20	0.00	102.55	101.99	98.10	0.00	103.87	102.61	102.82	102.83
23	20.40	0.00	?UNDEF	?UNDEF	26.00	0.00	102.71	102.01	80.20	0.00	103.89	102.54	102.89	102.68
24	19.80	0.00	?UNDEF	?UNDEF	24.10	0.00	102.72	101.90	79.90	0.00	103.70	102.58	102.89	102.68

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	DWOORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.50	0.00	106.45	?UNDEF	?UNDEF	?UNDEF	21.00	0.00	103.69	103.45	20.60	0.00	?UNDEF	?UNDEF
2	1.50	0.00	106.48	?UNDEF	?UNDEF	?UNDEF	12.70	0.00	*****	103.50	12.60	0.00	?UNDEF	?UNDEF
3	1.50	0.00	106.51	?UNDEF	?UNDEF	?UNDEF	19.80	0.00	103.81	103.46	12.30	0.00	?UNDEF	?UNDEF
4	1.50	0.00	106.54	?UNDEF	?UNDEF	?UNDEF	20.70	0.00	043.75	103.52	13.70	0.00	?UNDEF	?UNDEF
5	1.50	0.00	106.40	?UNDEF	?UNDEF	?UNDEF	29.10	0.00	103.76	103.69	25.70	0.00	?UNDEF	?UNDEF
6	1.50	0.00	106.41	?UNDEF	?UNDEF	?UNDEF	29.60	0.00	103.81	103.72	29.70	0.00	?UNDEF	?UNDEF
7	1.50	0.00	106.47	?UNDEF	?UNDEF	?UNDEF	30.30	0.00	103.86	103.80	30.10	0.00	?UNDEF	?UNDEF
8	1.50	0.00	106.76	?UNDEF	?UNDEF	?UNDEF	30.30	0.00	103.83	103.88	30.40	0.00	?UNDEF	?UNDEF
9	1.50	0.00	107.06	?UNDEF	?UNDEF	?UNDEF	29.80	0.00	103.88	103.94	33.10	0.00	?UNDEF	?UNDEF
10	1.50	0.00	107.51	?UNDEF	?UNDEF	?UNDEF	29.30	0.00	104.07	104.04	33.40	0.00	?UNDEF	?UNDEF
11	1.50	0.00	108.12	?UNDEF	?UNDEF	?UNDEF	29.20	0.00	104.48	104.40	33.10	0.00	?UNDEF	?UNDEF
12	1.40	0.00	108.70	?UNDEF	?UNDEF	?UNDEF	29.10	0.00	104.70	104.54	33.00	0.00	?UNDEF	?UNDEF
13	1.50	0.00	109.21	?UNDEF	?UNDEF	?UNDEF	25.50	0.00	104.94	104.83	32.80	0.00	?UNDEF	?UNDEF
14	1.50	0.00	109.48	?UNDEF	?UNDEF	?UNDEF	25.70	0.00	105.25	104.97	32.90	0.00	?UNDEF	?UNDEF
15	1.50	0.00	109.59	?UNDEF	?UNDEF	?UNDEF	25.30	0.00	105.09	105.06	32.80	0.00	?UNDEF	?UNDEF
16	1.50	0.00	108.24	?UNDEF	?UNDEF	?UNDEF	25.30	0.00	104.96	105.05	26.80	0.00	?UNDEF	?UNDEF
17	1.50	0.00	107.36	?UNDEF	?UNDEF	?UNDEF	25.30	0.00	104.79	104.83	26.50	0.00	?UNDEF	?UNDEF
18	1.50	0.00	106.64	?UNDEF	?UNDEF	?UNDEF	25.50	0.00	104.61	104.50	26.60	0.00	?UNDEF	?UNDEF
19	1.50	0.00	107.36	?UNDEF	?UNDEF	?UNDEF	28.60	0.00	104.41	104.32	29.50	0.00	?UNDEF	?UNDEF
20	1.50	0.00	105.68	?UNDEF	?UNDEF	?UNDEF	29.80	0.00	104.30	104.19	31.70	0.00	?UNDEF	?UNDEF
21	1.50	0.00	105.74	?UNDEF	?UNDEF	?UNDEF	29.60	0.00	104.19	104.12	31.70	0.00	?UNDEF	?UNDEF
22	1.50	0.00	105.70	?UNDEF	?UNDEF	?UNDEF	29.30	0.00	104.09	103.99	31.70	0.00	?UNDEF	?UNDEF
23	1.50	0.00	105.67	?UNDEF	?UNDEF	?UNDEF	20.40	0.00	104.06	104.10	21.30	0.00	?UNDEF	?UNDEF
24	1.50	0.00	105.61	?UNDEF	?UNDEF	?UNDEF	19.80	0.00	103.87	103.91	20.10	0.00	?UNDEF	?UNDEF
	LOWER MONUMENTAL			ICE HARBOR			MCNARY			PASCO				
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	20.30	0.00	?UNDEF	?UNDEF	19.80	0.00	103.27	102.53	90.40	0.00	104.78	103.30	103.10	103.48
2	12.10	0.00	?UNDEF	?UNDEF	10.20	0.00	103.31	102.48	66.30	0.00	104.72	103.32	103.13	103.18
3	11.90	0.00	?UNDEF	?UNDEF	9.70	0.00	103.32	102.37	64.90	0.00	104.74	103.21	103.26	103.12
4	12.20	0.00	?UNDEF	?UNDEF	10.90	0.00	103.36	102.29	95.00	0.00	104.51	103.25	103.44	103.00
5	26.70	0.00	?UNDEF	?UNDEF	18.20	0.00	103.44	102.42	101.70	0.00	104.39	103.24	103.46	102.93
6	29.10	0.00	?UNDEF	?UNDEF	24.50	0.00	103.46	102.53	112.90	0.00	104.28	103.44	103.48	103.02
7	29.20	0.00	?UNDEF	?UNDEF	25.20	0.00	103.50	102.64	124.20	0.00	104.58	103.45	103.50	102.87
8	29.20	0.00	?UNDEF	?UNDEF	31.00	0.00	103.48	102.82	115.10	0.00	104.49	103.58	103.55	102.72
9	34.90	0.00	?UNDEF	?UNDEF	35.80	0.00	103.64	102.88	115.10	0.00	104.35	103.61	103.71	102.63
10	35.30	0.00	?UNDEF	?UNDEF	36.20	0.00	103.78	103.34	103.50	0.00	104.50	104.01	104.07	102.95
11	35.90	0.00	?UNDEF	?UNDEF	36.20	0.00	103.85	103.55	104.30	0.00	104.64	104.42	104.43	103.14
12	35.40	0.00	?UNDEF	?UNDEF	36.30	0.00	104.03	104.00	116.00	0.00	104.61	104.39	104.61	103.44
13	35.30	0.00	?UNDEF	?UNDEF	36.30	0.00	104.37	104.56	113.30	0.00	104.82	104.65	104.83	103.72
14	35.40	0.00	?UNDEF	?UNDEF	36.10	0.00	104.36	104.17	113.20	0.00	105.01	104.72	104.92	103.87
15	35.40	0.00	?UNDEF	?UNDEF	36.00	0.00	104.65	104.10	111.90	0.00	104.98	104.48	104.60	103.95
16	31.40	0.00	?UNDEF	?UNDEF	30.30	0.00	104.32	103.74	121.50	0.00	104.81	104.21	104.24	103.65
17	31.00	0.00	?UNDEF	?UNDEF	31.10	0.00	104.17	103.35	122.00	0.00	104.66	104.13	104.15	103.24
18	27.90	0.00	?UNDEF	?UNDEF	29.00	0.00	104.10	103.09	124.20	0.00	104.38	104.02	103.80	102.75
19	29.80	0.00	?UNDEF	?UNDEF	29.70	0.00	103.85	102.81	114.40	0.00	104.20	103.70	103.55	102.32
20	32.00	0.00	?UNDEF	?UNDEF	32.10	0.00	103.49	102.53	119.00	0.00	104.13	103.66	103.48	101.92
21	32.00	0.00	?UNDEF	?UNDEF	31.80	0.00	103.43	102.46	117.10	0.00	104.13	103.50	103.41	101.73
22	31.60	0.00	?UNDEF	?UNDEF	31.30	0.00	103.19	102.23	113.30	0.00	103.91	103.44	103.25	101.56
23	21.30	0.00	?UNDEF	?UNDEF	20.40	0.00	103.22	102.21	94.30	0.00	103.80	103.35	103.13	101.39
24	20.10	0.00	?UNDEF	?UNDEF	19.80	0.00	103.11	102.14	85.30	0.00	103.86	103.23	103.20	101.39

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HOUR	DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
	TOTAL DISCH. KCFS	SPILL KCFS	GAS TAILW.	%SAT	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT	TOTAL DISCH KCFS
1	1.50	0.00	106.10	?UNDEF	?UNDEF	?UNDEF	?UNDEF	11.70	0.00	103.30	103.17	11.60	0.00	?UNDEF	?UNDEF	11.60
2	1.50	0.00	105.97	?UNDEF	?UNDEF	?UNDEF	?UNDEF	9.40	0.00	103.26	103.29	9.60	0.00	?UNDEF	?UNDEF	9.60
3	1.50	0.00	106.10	?UNDEF	?UNDEF	?UNDEF	?UNDEF	11.20	0.00	103.24	103.26	11.70	0.00	?UNDEF	?UNDEF	11.70
4	1.50	0.00	106.27	?UNDEF	?UNDEF	?UNDEF	?UNDEF	11.70	0.00	103.24	103.15	11.70	0.00	?UNDEF	?UNDEF	11.70
5	1.50	0.00	106.19	?UNDEF	?UNDEF	?UNDEF	?UNDEF	23.70	0.00	103.18	103.08	12.20	0.00	?UNDEF	?UNDEF	12.20
6	1.50	0.00	106.29	?UNDEF	?UNDEF	?UNDEF	?UNDEF	24.70	0.00	103.13	103.03	24.50	0.00	?UNDEF	?UNDEF	24.50
7	1.50	0.00	106.35	?UNDEF	?UNDEF	?UNDEF	?UNDEF	28.30	0.00	103.23	103.03	27.90	0.00	?UNDEF	?UNDEF	27.90
8	1.50	0.00	106.60	?UNDEF	?UNDEF	?UNDEF	?UNDEF	28.00	0.00	103.31	103.09	28.00	0.00	?UNDEF	?UNDEF	28.00
9	1.40	0.00	107.09	?UNDEF	?UNDEF	?UNDEF	?UNDEF	28.00	0.00	103.63	103.23	30.00	0.00	?UNDEF	?UNDEF	30.00
10	1.50	0.00	107.52	?UNDEF	?UNDEF	?UNDEF	?UNDEF	24.80	0.00	103.60	103.68	26.90	0.00	?UNDEF	?UNDEF	26.90
11	1.50	0.00	108.03	?UNDEF	?UNDEF	?UNDEF	?UNDEF	24.30	0.00	103.60	103.63	26.50	0.00	?UNDEF	?UNDEF	26.50
12	1.50	0.00	108.10	?UNDEF	?UNDEF	?UNDEF	?UNDEF	24.80	0.00	103.79	?UNDEF	25.10	0.00	?UNDEF	?UNDEF	25.10
13	1.50	0.00	108.47	?UNDEF	?UNDEF	?UNDEF	?UNDEF	24.40	0.00	103.86	103.91	24.80	0.00	?UNDEF	?UNDEF	24.80
14	1.50	0.00	108.40	?UNDEF	?UNDEF	?UNDEF	?UNDEF	24.60	0.00	104.02	103.94	24.70	0.00	?UNDEF	?UNDEF	24.70
15	1.50	0.00	108.17	?UNDEF	?UNDEF	?UNDEF	?UNDEF	26.30	0.00	104.33	104.25	24.60	0.00	?UNDEF	?UNDEF	24.60
16	1.50	0.00	107.94	?UNDEF	?UNDEF	?UNDEF	?UNDEF	24.60	0.00	104.25	103.97	24.60	0.00	?UNDEF	?UNDEF	24.60
17	1.50	0.00	107.34	?UNDEF	?UNDEF	?UNDEF	?UNDEF	24.80	0.00	110.48	104.17	24.80	0.00	?UNDEF	?UNDEF	24.80
18	1.50	0.00	106.74	?UNDEF	?UNDEF	?UNDEF	?UNDEF	24.40	0.00	104.01	103.96	27.60	0.00	?UNDEF	?UNDEF	27.60
19	1.50	0.00	107.34	?UNDEF	?UNDEF	?UNDEF	?UNDEF	24.50	0.00	103.81	103.74	27.70	0.00	?UNDEF	?UNDEF	27.70
20	1.50	0.00	106.25	?UNDEF	?UNDEF	?UNDEF	?UNDEF	26.70	0.00	103.66	103.72	29.60	0.00	?UNDEF	?UNDEF	29.60
21	1.50	0.00	106.10	?UNDEF	?UNDEF	?UNDEF	?UNDEF	28.00	0.00	103.63	103.67	29.80	0.00	?UNDEF	?UNDEF	29.80
22	1.50	0.00	106.21	?UNDEF	?UNDEF	?UNDEF	?UNDEF	28.50	0.00	103.63	103.66	29.50	0.00	?UNDEF	?UNDEF	29.50
23	1.50	0.00	106.34	?UNDEF	?UNDEF	?UNDEF	?UNDEF	24.80	0.00	103.61	103.50	25.20	0.00	?UNDEF	?UNDEF	25.20
24	1.50	0.00	106.43	?UNDEF	?UNDEF	?UNDEF	?UNDEF	20.50	0.00	103.62	103.67	21.20	0.00	?UNDEF	?UNDEF	21.20

HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT	TOTAL DISCH KCFS	%SAT TAILW.
1	13.60	0.00	?UNDEF	?UNDEF	11.40	0.00	103.31	102.31	81.10	0.00	104.71	103.71	103.42	103.19	13.60	103.42
2	11.10	0.00	?UNDEF	?UNDEF	9.90	0.00	103.31	102.33	58.60	0.00	103.89	103.58	103.26	103.06	11.10	103.26
3	13.00	0.00	?UNDEF	?UNDEF	9.90	0.00	103.29	102.21	56.70	0.00	104.19	103.59	103.39	102.93	13.00	103.39
4	13.10	0.00	?UNDEF	?UNDEF	11.20	0.00	103.15	102.18	61.70	0.00	104.42	103.51	103.36	102.77	13.10	103.36
5	13.10	0.00	?UNDEF	?UNDEF	18.40	0.00	103.11	102.13	103.30	0.00	104.51	103.41	103.32	102.58	13.10	103.32
6	13.60	0.00	?UNDEF	?UNDEF	29.50	0.00	103.21	102.22	126.60	0.00	104.23	103.24	103.31	102.44	13.60	103.31
7	27.20	0.00	?UNDEF	?UNDEF	29.00	0.00	103.19	102.38	129.50	0.00	104.02	103.15	103.21	102.27	27.20	103.21
8	28.00	0.00	?UNDEF	?UNDEF	29.20	0.00	103.09	102.53	127.70	0.00	104.12	103.38	103.23	102.20	28.00	103.23
9	31.30	0.00	?UNDEF	?UNDEF	34.10	0.00	103.09	102.61	123.90	0.00	104.09	103.40	103.30	102.37	31.30	103.30
10	32.40	0.00	?UNDEF	?UNDEF	34.30	0.00	103.21	102.85	99.00	0.00	104.37	103.39	103.42	102.45	32.40	103.42
11	27.50	0.00	?UNDEF	?UNDEF	29.00	0.00	103.21	103.12	96.20	0.00	104.51	103.68	103.70	102.70	27.50	103.70
12	27.10	0.00	?UNDEF	?UNDEF	26.00	0.00	103.29	103.25	97.70	0.00	104.44	104.05	103.79	103.02	27.10	103.79
13	27.10	0.00	?UNDEF	?UNDEF	25.20	0.00	103.40	103.96	98.70	0.00	104.52	104.22	103.85	103.53	27.10	103.85
14	27.20	0.00	?UNDEF	?UNDEF	25.00	0.00	103.44	103.79	99.00	0.00	104.85	104.29	104.06	103.85	27.20	104.06
15	27.10	0.00	?UNDEF	?UNDEF	25.20	0.00	103.51	104.02	98.50	0.00	104.79	104.34	103.97	104.14	27.10	103.97
16	27.40	0.00	?UNDEF	?UNDEF	25.20	0.00	103.69	104.07	99.30	0.00	104.92	104.23	103.85	104.46	27.40	103.85
17	27.50	0.00	?UNDEF	?UNDEF	25.30	0.00	103.56	103.76	99.00	0.00	104.78	104.08	103.73	104.62	27.50	103.73
18	31.00	0.00	?UNDEF	?UNDEF	30.80	0.00	103.47	103.43	99.60	0.00	104.78	104.05	103.57	104.45	31.00	103.57
19	30.50	0.00	?UNDEF	?UNDEF	30.50	0.00	103.28	103.11	109.80	0.00	104.72	103.90	103.43	104.39	30.50	103.43
20	31.40	0.00	?UNDEF	?UNDEF	32.90	0.00	103.43	102.94	111.90	0.00	104.42	103.72	103.26	104.22	31.40	103.26
21	31.50	0.00	?UNDEF	?UNDEF	34.40	0.00	103.41	102.81	108.50	0.00	104.27	103.66	103.23	104.09	31.50	103.23
22	31.20	0.00	?UNDEF	?UNDEF	34.00	0.00	103.34	102.75	101.30	0.00	103.94	103.50	103.18	103.94	31.20	103.18
23	27.70	0.00	?UNDEF	?UNDEF	30.30	0.00	103.33	102.64	95.90	0.00	104.07	103.35	103.02	103.78	27.70	103.02
24	20.70	0.00	?UNDEF	?UNDEF	21.00	0.00	103.25	102.53	92.40	0.00	104.63	103.24	103.03	103.78	20.70	103.03

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HOUR	DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.50	0.00	106.22	?UNDEF	?UNDEF	?UNDEF	11.60	0.00	103.40	103.29	11.70	0.00	?UNDEF	?UNDEF	?UNDEF
2	1.50	0.00	106.27	?UNDEF	?UNDEF	?UNDEF	11.60	0.00	103.40	103.29	11.60	0.00	?UNDEF	?UNDEF	?UNDEF
3	1.50	0.00	106.28	?UNDEF	?UNDEF	?UNDEF	11.80	0.00	103.41	103.17	11.60	0.00	?UNDEF	?UNDEF	?UNDEF
4	1.50	0.00	106.17	?UNDEF	?UNDEF	?UNDEF	11.70	0.00	103.37	103.13	11.60	0.00	?UNDEF	?UNDEF	?UNDEF
5	1.50	0.00	106.11	?UNDEF	?UNDEF	?UNDEF	11.90	0.00	103.29	103.03	11.60	0.00	?UNDEF	?UNDEF	?UNDEF
6	1.50	0.00	106.07	?UNDEF	?UNDEF	?UNDEF	11.90	0.00	103.06	102.94	11.60	0.00	?UNDEF	?UNDEF	?UNDEF
7	1.50	0.00	106.16	?UNDEF	?UNDEF	?UNDEF	12.90	0.00	103.16	103.08	11.80	0.00	?UNDEF	?UNDEF	?UNDEF
8	1.50	0.00	106.39	?UNDEF	?UNDEF	?UNDEF	24.30	0.00	103.18	103.04	20.90	0.00	?UNDEF	?UNDEF	?UNDEF
9	1.50	0.00	106.87	?UNDEF	?UNDEF	?UNDEF	24.20	0.00	103.16	103.16	24.90	0.00	?UNDEF	?UNDEF	?UNDEF
10	1.40	0.00	107.57	?UNDEF	?UNDEF	?UNDEF	26.90	0.00	103.30	103.16	26.50	0.00	?UNDEF	?UNDEF	?UNDEF
11	1.40	0.00	107.99	?UNDEF	?UNDEF	?UNDEF	27.10	0.00	103.34	103.37	26.60	0.00	?UNDEF	?UNDEF	?UNDEF
12	1.50	0.00	108.47	?UNDEF	?UNDEF	?UNDEF	27.10	0.00	103.31	103.37	26.40	0.00	?UNDEF	?UNDEF	?UNDEF
13	1.50	0.00	108.45	?UNDEF	?UNDEF	?UNDEF	27.60	0.00	103.67	103.57	28.20	0.00	?UNDEF	?UNDEF	?UNDEF
14	1.50	0.00	108.56	?UNDEF	?UNDEF	?UNDEF	28.90	0.00	103.67	103.57	31.20	0.00	?UNDEF	?UNDEF	?UNDEF
15	1.50	0.00	108.32	?UNDEF	?UNDEF	?UNDEF	29.00	0.00	103.61	103.64	31.30	0.00	?UNDEF	?UNDEF	?UNDEF
16	1.50	0.00	108.09	?UNDEF	?UNDEF	?UNDEF	29.00	0.00	103.85	103.55	31.20	0.00	?UNDEF	?UNDEF	?UNDEF
17	1.50	0.00	107.65	?UNDEF	?UNDEF	?UNDEF	31.20	0.00	103.73	103.53	31.00	0.00	?UNDEF	?UNDEF	?UNDEF
18	1.50	0.00	107.04	?UNDEF	?UNDEF	?UNDEF	25.00	0.00	103.73	103.36	24.70	0.00	?UNDEF	?UNDEF	?UNDEF
19	1.50	0.00	107.65	?UNDEF	?UNDEF	?UNDEF	28.20	0.00	103.55	103.46	30.50	0.00	?UNDEF	?UNDEF	?UNDEF
20	1.50	0.00	106.13	?UNDEF	?UNDEF	?UNDEF	18.90	0.00	103.45	103.62	18.90	0.00	?UNDEF	?UNDEF	?UNDEF
21	1.50	0.00	105.85	?UNDEF	?UNDEF	?UNDEF	19.90	0.00	103.45	103.50	21.10	0.00	?UNDEF	?UNDEF	?UNDEF
22	1.50	0.00	105.83	?UNDEF	?UNDEF	?UNDEF	17.30	0.00	103.33	103.50	19.30	0.00	?UNDEF	?UNDEF	?UNDEF
23	1.50	0.00	105.83	?UNDEF	?UNDEF	?UNDEF	16.30	0.00	103.26	103.17	18.80	0.00	?UNDEF	?UNDEF	?UNDEF
24	1.50	0.00	105.92	?UNDEF	?UNDEF	?UNDEF	16.10	0.00	103.24	103.29	19.00	0.00	?UNDEF	?UNDEF	?UNDEF

HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO	
	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	12.90	0.00	?UNDEF	?UNDEF	11.10	0.00	102.83	101.99	80.10	0.00	104.10	104.42	103.47	103.09
2	13.10	0.00	?UNDEF	?UNDEF	9.80	0.00	102.81	101.84	75.00	0.00	104.09	104.28	103.44	102.82
3	13.10	0.00	?UNDEF	?UNDEF	9.80	0.00	102.83	101.83	53.30	0.00	104.04	104.21	103.33	102.73
4	13.10	0.00	?UNDEF	?UNDEF	10.00	0.00	102.66	101.67	53.80	0.00	104.12	104.01	103.29	102.53
5	13.20	0.00	?UNDEF	?UNDEF	9.80	0.00	102.59	101.59	53.90	0.00	104.30	103.96	103.36	102.47
6	13.10	0.00	?UNDEF	?UNDEF	9.80	0.00	102.55	101.58	56.10	0.00	104.10	103.89	103.18	102.28
7	13.40	0.00	?UNDEF	?UNDEF	10.70	0.00	102.66	101.59	79.80	0.00	103.40	103.71	103.27	102.07
8	20.60	0.00	?UNDEF	?UNDEF	18.10	0.00	102.63	101.78	84.30	0.00	103.36	103.68	103.48	102.09
9	21.30	0.00	?UNDEF	?UNDEF	18.10	0.00	102.72	102.27	112.30	0.00	103.74	103.82	103.43	102.11
10	25.60	0.00	?UNDEF	?UNDEF	18.10	0.00	102.89	102.36	120.10	0.00	104.20	104.08	103.88	102.25
11	26.40	0.00	?UNDEF	?UNDEF	28.20	0.00	102.92	102.80	121.80	0.00	104.48	104.17	103.82	102.53
12	26.30	0.00	?UNDEF	?UNDEF	28.80	0.00	102.80	103.23	121.30	0.00	104.64	104.06	104.11	102.88
13	28.70	0.00	?UNDEF	?UNDEF	30.30	0.00	102.83	103.83	122.20	0.00	104.93	104.26	104.16	103.15
14	31.20	0.00	?UNDEF	?UNDEF	36.90	0.00	103.00	103.65	134.10	0.00	105.07	104.48	104.35	103.43
15	31.20	0.00	?UNDEF	?UNDEF	37.30	0.00	103.22	103.62	135.10	0.00	105.10	104.39	104.43	103.92
16	31.40	0.00	?UNDEF	?UNDEF	37.30	0.00	103.31	103.58	126.80	0.00	105.19	104.57	104.21	104.23
17	31.70	0.00	?UNDEF	?UNDEF	37.20	0.00	103.44	103.42	126.60	0.00	105.28	104.59	103.95	104.41
18	27.50	0.00	?UNDEF	?UNDEF	31.80	0.00	103.39	103.26	125.20	0.00	105.30	104.57	103.81	104.41
19	27.00	0.00	?UNDEF	?UNDEF	28.80	0.00	103.38	102.93	123.10	0.00	105.26	104.37	103.68	104.20
20	20.70	0.00	?UNDEF	?UNDEF	18.40	0.00	103.32	102.76	122.60	0.00	105.03	104.20	103.60	104.04
21	20.70	0.00	?UNDEF	?UNDEF	20.30	0.00	103.32	102.61	125.00	0.00	104.88	104.01	103.42	103.89
22	21.20	0.00	?UNDEF	?UNDEF	24.70	0.00	103.35	102.48	123.50	0.00	104.84	103.97	103.51	103.73
23	21.20	0.00	?UNDEF	?UNDEF	20.60	0.00	103.27	102.43	97.80	0.00	104.83	103.83	103.38	103.58
24	21.00	0.00	?UNDEF	?UNDEF	20.20	0.00	103.28	102.43	97.20	0.00	104.85	103.83	103.40	103.58

10 MAR 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

10 MAR 2001

	DWORKSHAK			STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.50	0.00	105.98	?UNDEF	?UNDEF	?UNDEF	20.80	0.00	103.06	102.99	28.00	0.00	?UNDEF	?UNDEF
2	1.50	0.00	106.04	?UNDEF	?UNDEF	?UNDEF	20.70	0.00	103.07	102.86	26.00	0.00	?UNDEF	?UNDEF
3	1.50	0.00	106.22	?UNDEF	?UNDEF	?UNDEF	14.40	0.00	103.11	102.90	23.00	0.00	?UNDEF	?UNDEF
4	1.50	0.00	106.35	?UNDEF	?UNDEF	?UNDEF	13.60	0.00	103.17	103.07	22.80	0.00	?UNDEF	?UNDEF
5	1.50	0.00	106.49	?UNDEF	?UNDEF	?UNDEF	13.60	0.00	103.18	102.94	23.10	0.00	?UNDEF	?UNDEF
6	1.50	0.00	106.35	?UNDEF	?UNDEF	?UNDEF	13.90	0.00	103.18	102.95	23.50	0.00	?UNDEF	?UNDEF
7	1.50	0.00	106.38	?UNDEF	?UNDEF	?UNDEF	20.00	0.00	103.34	103.26	23.10	0.00	?UNDEF	?UNDEF
8	1.50	0.00	106.23	?UNDEF	?UNDEF	?UNDEF	29.60	0.00	103.69	103.34	27.70	0.00	?UNDEF	?UNDEF
9	1.50	0.00	106.34	?UNDEF	?UNDEF	?UNDEF	29.60	0.00	103.54	103.62	27.50	0.00	?UNDEF	?UNDEF
10	1.50	0.00	106.79	?UNDEF	?UNDEF	?UNDEF	29.60	0.00	103.46	103.65	27.70	0.00	?UNDEF	?UNDEF
11	1.50	0.00	107.40	?UNDEF	?UNDEF	?UNDEF	30.50	0.00	103.79	103.69	27.80	0.00	?UNDEF	?UNDEF
12	1.50	0.00	107.86	?UNDEF	?UNDEF	?UNDEF	30.50	0.00	103.93	103.68	27.80	0.00	?UNDEF	?UNDEF
13	1.40	0.00	107.80	?UNDEF	?UNDEF	?UNDEF	31.10	0.00	104.03	103.91	28.00	0.00	?UNDEF	?UNDEF
14	1.50	0.00	107.89	?UNDEF	?UNDEF	?UNDEF	30.50	0.00	103.97	104.02	28.00	0.00	?UNDEF	?UNDEF
15	1.50	0.00	107.81	?UNDEF	?UNDEF	?UNDEF	30.30	0.00	104.04	103.96	28.00	0.00	?UNDEF	?UNDEF
16	1.50	0.00	107.58	?UNDEF	?UNDEF	?UNDEF	30.30	0.00	104.08	103.84	28.00	0.00	?UNDEF	?UNDEF
17	1.50	0.00	107.16	?UNDEF	?UNDEF	?UNDEF	30.90	0.00	104.05	103.72	28.10	0.00	?UNDEF	?UNDEF
18	1.50	0.00	106.89	?UNDEF	?UNDEF	?UNDEF	33.60	0.00	104.08	103.70	31.90	0.00	?UNDEF	?UNDEF
19	1.50	0.00	107.16	?UNDEF	?UNDEF	?UNDEF	36.90	0.00	103.89	103.53	32.20	0.00	?UNDEF	?UNDEF
20	1.50	0.00	106.25	?UNDEF	?UNDEF	?UNDEF	37.10	0.00	103.83	103.61	32.10	0.00	?UNDEF	?UNDEF
21	1.50	0.00	106.22	?UNDEF	?UNDEF	?UNDEF	37.00	0.00	103.55	103.45	32.20	0.00	?UNDEF	?UNDEF
22	1.50	0.00	106.31	?UNDEF	?UNDEF	?UNDEF	25.80	0.00	103.62	103.42	32.40	0.00	?UNDEF	?UNDEF
23	1.50	0.00	106.48	?UNDEF	?UNDEF	?UNDEF	24.50	0.00	103.62	103.42	24.90	0.00	?UNDEF	?UNDEF
24	1.50	0.00	106.48	?UNDEF	?UNDEF	?UNDEF	12.40	0.00	103.44	103.20	12.00	0.00	?UNDEF	?UNDEF

HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO	
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	34.00	0.00	?UNDEF	?UNDEF	38.10	0.00	103.38	102.04	92.80	0.00	103.67	103.30	103.14	102.90
2	28.00	0.00	?UNDEF	?UNDEF	37.50	0.00	103.19	102.09	88.60	0.00	103.69	103.33	103.05	102.77
3	27.50	0.00	?UNDEF	?UNDEF	29.70	0.00	103.08	102.12	79.20	0.00	103.76	103.24	103.09	102.68
4	21.40	0.00	?UNDEF	?UNDEF	21.00	0.00	102.81	102.12	73.80	0.00	103.80	103.27	103.08	102.56
5	20.90	0.00	?UNDEF	?UNDEF	20.90	0.00	102.69	101.99	75.20	0.00	103.89	103.29	103.08	102.56
6	20.80	0.00	?UNDEF	?UNDEF	20.70	0.00	102.66	101.93	116.50	0.00	103.72	103.25	103.30	102.40
7	20.80	0.00	?UNDEF	?UNDEF	20.70	0.00	102.54	101.99	135.10	0.00	103.59	103.34	103.43	102.26
8	28.60	0.00	?UNDEF	?UNDEF	26.00	0.00	102.53	101.99	139.70	0.00	103.56	103.49	103.42	102.24
9	30.30	0.00	?UNDEF	?UNDEF	29.20	0.00	102.69	102.20	137.80	0.00	104.10	103.62	103.57	102.27
10	29.70	0.00	?UNDEF	?UNDEF	29.20	0.00	102.79	102.42	137.30	0.00	104.47	103.76	103.66	102.42
11	31.30	0.00	?UNDEF	?UNDEF	31.80	0.00	102.97	102.71	126.90	0.00	104.74	103.81	103.99	102.53
12	31.10	0.00	?UNDEF	?UNDEF	31.70	0.00	103.10	103.06	126.50	0.00	105.62	104.02	104.04	102.87
13	31.10	0.00	?UNDEF	?UNDEF	31.60	0.00	103.08	103.69	120.50	0.00	106.68	104.36	104.28	103.41
14	31.10	0.00	?UNDEF	?UNDEF	31.60	0.00	103.20	103.59	118.40	0.00	106.68	104.61	104.41	103.90
15	31.00	0.00	?UNDEF	?UNDEF	31.60	0.00	103.27	103.65	115.70	0.00	106.89	104.79	104.44	104.20
16	30.90	0.00	?UNDEF	?UNDEF	31.60	0.00	103.45	103.70	115.10	0.00	106.39	105.01	104.42	104.52
17	30.80	0.00	?UNDEF	?UNDEF	32.10	0.00	103.47	103.43	116.60	0.00	105.77	105.06	104.49	104.72
18	34.90	0.00	?UNDEF	?UNDEF	34.50	0.00	103.43	103.24	119.00	0.00	105.14	104.98	104.26	104.61
19	34.50	0.00	?UNDEF	?UNDEF	34.10	0.00	103.36	102.90	137.90	0.00	105.05	105.07	104.10	104.41
20	34.50	0.00	?UNDEF	?UNDEF	33.90	0.00	103.28	102.69	139.20	0.00	104.79	104.90	103.99	104.34
21	34.50	0.00	?UNDEF	?UNDEF	33.70	0.00	103.09	102.55	138.60	0.00	104.55	104.98	103.91	104.12
22	34.10	0.00	?UNDEF	?UNDEF	33.30	0.00	103.09	102.38	137.40	0.00	104.51	104.86	103.88	103.91
23	24.40	0.00	?UNDEF	?UNDEF	24.00	0.00	102.90	102.23	134.90	0.00	104.37	104.79	103.81	103.53
24	12.30	0.00	?UNDEF	?UNDEF	14.70	0.00	102.88	102.16	98.10	0.00	104.20	104.65	103.66	103.53

09 MAR 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

09 MAR 2001

	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.50	0.00	106.26	?UNDEF	?UNDEF	?UNDEF	11.50	0.00	103.10	102.22	11.70	0.00	?UNDEF	?UNDEF
2	1.50	0.00	106.17	?UNDEF	?UNDEF	?UNDEF	11.70	0.00	103.07	102.31	11.70	0.00	?UNDEF	?UNDEF
3	1.50	0.00	106.29	?UNDEF	?UNDEF	?UNDEF	11.50	0.00	102.94	102.47	11.60	0.00	?UNDEF	?UNDEF
4	1.50	0.00	106.29	?UNDEF	?UNDEF	?UNDEF	11.50	0.00	102.91	102.43	11.60	0.00	?UNDEF	?UNDEF
5	1.50	0.00	106.08	?UNDEF	?UNDEF	?UNDEF	12.70	0.00	102.87	102.39	12.50	0.00	?UNDEF	?UNDEF
6	1.50	0.00	106.20	?UNDEF	?UNDEF	?UNDEF	32.60	0.00	102.99	102.32	27.70	0.00	?UNDEF	?UNDEF
7	1.50	0.00	106.31	?UNDEF	?UNDEF	?UNDEF	33.80	0.00	102.94	102.31	34.90	0.00	?UNDEF	?UNDEF
8	1.50	0.00	106.31	?UNDEF	?UNDEF	?UNDEF	33.90	0.00	102.89	102.40	34.90	0.00	?UNDEF	?UNDEF
9	1.50	0.00	106.41	?UNDEF	?UNDEF	?UNDEF	29.80	0.00	103.01	102.40	30.30	0.00	?UNDEF	?UNDEF
10	1.50	0.00	106.79	?UNDEF	?UNDEF	?UNDEF	35.90	0.00	103.03	102.51	26.60	0.00	?UNDEF	?UNDEF
11	1.50	0.00	107.05	?UNDEF	?UNDEF	?UNDEF	48.40	0.00	103.04	102.68	34.40	0.00	?UNDEF	?UNDEF
12	1.40	0.00	107.47	?UNDEF	?UNDEF	?UNDEF	50.60	0.00	103.12	102.87	36.50	0.00	?UNDEF	?UNDEF
13	1.50	0.00	111.04	?UNDEF	?UNDEF	?UNDEF	51.70	0.00	103.34	103.10	43.00	0.00	?UNDEF	?UNDEF
14	1.50	0.00	111.10	?UNDEF	?UNDEF	?UNDEF	47.40	0.00	103.31	103.10	48.00	0.00	?UNDEF	?UNDEF
15	1.50	0.00	109.47	?UNDEF	?UNDEF	?UNDEF	27.70	0.00	103.36	103.09	36.50	0.00	?UNDEF	?UNDEF
16	1.40	0.00	107.85	?UNDEF	?UNDEF	?UNDEF	24.70	0.00	103.33	103.09	35.80	0.00	?UNDEF	?UNDEF
17	1.50	0.00	107.16	?UNDEF	?UNDEF	?UNDEF	25.10	0.00	103.30	102.94	29.90	0.00	?UNDEF	?UNDEF
18	1.50	0.00	106.74	?UNDEF	?UNDEF	?UNDEF	14.80	0.00	103.26	102.90	16.00	0.00	?UNDEF	?UNDEF
19	1.50	0.00	107.16	?UNDEF	?UNDEF	?UNDEF	14.20	0.00	103.24	102.89	20.00	0.00	?UNDEF	?UNDEF
20	1.50	0.00	106.28	?UNDEF	?UNDEF	?UNDEF	33.50	0.00	103.26	102.87	34.60	0.00	?UNDEF	?UNDEF
21	1.50	0.00	106.14	?UNDEF	?UNDEF	?UNDEF	34.40	0.00	103.07	102.84	38.40	0.00	?UNDEF	?UNDEF
22	1.50	0.00	106.10	?UNDEF	?UNDEF	?UNDEF	34.40	0.00	103.04	102.98	38.30	0.00	?UNDEF	?UNDEF
23	1.50	0.00	105.98	?UNDEF	?UNDEF	?UNDEF	27.40	0.00	103.00	102.78	32.10	0.00	?UNDEF	?UNDEF
24	1.50	0.00	105.97	?UNDEF	?UNDEF	?UNDEF	20.90	0.00	103.04	103.07	28.10	0.00	?UNDEF	?UNDEF
	LOWER MONUMENTAL			ICE HARBOR			MCNARY			PASCO				
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	11.70	0.00	?UNDEF	?UNDEF	10.90	0.00	102.24	101.44	76.90	0.00	103.41	102.65	102.75	102.56
2	11.90	0.00	?UNDEF	?UNDEF	9.70	0.00	102.23	101.27	78.30	0.00	103.39	102.80	102.73	102.40
3	12.20	0.00	?UNDEF	?UNDEF	9.70	0.00	102.26	101.11	75.60	0.00	103.26	102.80	102.77	102.26
4	11.70	0.00	?UNDEF	?UNDEF	9.70	0.00	102.19	101.07	79.70	0.00	103.25	102.65	102.73	102.07
5	12.70	0.00	?UNDEF	?UNDEF	10.90	0.00	102.03	101.02	109.90	0.00	103.09	102.60	102.70	101.91
6	27.10	0.00	?UNDEF	?UNDEF	28.60	0.00	102.09	101.15	146.10	0.00	103.01	102.69	102.85	101.98
7	37.50	0.00	?UNDEF	?UNDEF	37.80	0.00	102.23	101.40	149.30	0.00	102.99	102.68	102.72	102.19
8	37.90	0.00	?UNDEF	?UNDEF	38.10	0.00	102.29	101.52	148.00	0.00	103.19	102.62	102.81	101.75
9	35.10	0.00	?UNDEF	?UNDEF	34.60	0.00	102.38	101.58	141.10	0.00	103.48	102.74	102.94	101.57
10	26.90	0.00	?UNDEF	?UNDEF	29.10	0.00	102.40	102.06	144.30	0.00	103.85	102.73	102.96	101.87
11	34.60	0.00	?UNDEF	?UNDEF	28.70	0.00	102.53	101.88	143.00	0.00	104.10	102.99	103.05	101.95
12	35.90	0.00	?UNDEF	?UNDEF	28.70	0.00	102.55	102.14	143.70	0.00	104.02	103.03	102.94	102.31
13	35.10	0.00	?UNDEF	?UNDEF	28.70	0.00	102.61	102.64	147.10	0.00	104.05	103.10	103.14	102.64
14	35.20	0.00	?UNDEF	?UNDEF	28.70	0.00	102.65	102.64	146.40	0.00	104.21	103.28	103.30	102.94
15	41.70	0.00	?UNDEF	?UNDEF	29.10	0.00	102.70	102.80	145.90	0.00	104.29	103.44	103.20	103.37
16	41.90	0.00	?UNDEF	?UNDEF	41.80	0.00	102.69	102.81	141.30	0.00	104.29	103.45	103.37	103.48
17	30.90	0.00	?UNDEF	?UNDEF	31.10	0.00	102.69	102.46	141.80	0.00	104.58	103.47	103.24	103.78
18	30.00	0.00	?UNDEF	?UNDEF	33.10	0.00	102.56	102.38	142.80	0.00	104.48	103.32	103.13	103.75
19	20.80	0.00	?UNDEF	?UNDEF	29.00	0.00	102.52	102.22	149.40	0.00	104.67	103.27	103.09	103.73
20	32.90	0.00	?UNDEF	?UNDEF	34.20	0.00	102.66	102.08	144.30	0.00	104.54	103.27	103.17	103.63
21	40.80	0.00	?UNDEF	?UNDEF	41.10	0.00	102.61	102.02	143.50	0.00	104.22	103.23	103.15	103.58
22	41.70	0.00	?UNDEF	?UNDEF	41.30	0.00	102.84	102.00	134.00	0.00	103.78	103.33	103.25	103.40
23	34.70	0.00	?UNDEF	?UNDEF	38.30	0.00	103.27	102.00	98.10	0.00	103.89	103.33	103.11	103.13
24	34.30	0.00	?UNDEF	?UNDEF	38.00	0.00	103.53	102.02	91.70	0.00	103.78	103.30	103.14	103.13

08 MAR 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

08 MAR 2001

	DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.		ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.40	0.00	106.53	:	?UNDEF	?UNDEF	?UNDEF	19.20	0.00	102.88	102.01	15.40	0.00	?UNDEF	?UNDEF
2	1.40	0.00	106.54	:	?UNDEF	?UNDEF	?UNDEF	18.00	0.00	102.86	101.86	11.80	0.00	?UNDEF	?UNDEF
3	1.40	0.00	106.58	:	?UNDEF	?UNDEF	?UNDEF	18.70	0.00	102.86	101.98	11.30	0.00	?UNDEF	?UNDEF
4	1.40	0.00	106.73	:	?UNDEF	?UNDEF	?UNDEF	20.30	0.00	102.69	101.80	11.60	0.00	?UNDEF	?UNDEF
5	1.40	0.00	106.73	:	?UNDEF	?UNDEF	?UNDEF	20.70	0.00	102.74	101.86	12.00	0.00	?UNDEF	?UNDEF
6	1.40	0.00	106.73	:	?UNDEF	?UNDEF	?UNDEF	20.90	0.00	102.72	101.84	21.20	0.00	?UNDEF	?UNDEF
7	1.40	0.00	106.69	:	?UNDEF	?UNDEF	?UNDEF	24.80	0.00	102.67	101.92	25.20	0.00	?UNDEF	?UNDEF
8	1.40	0.00	106.96	:	?UNDEF	?UNDEF	?UNDEF	24.60	0.00	102.68	102.04	25.30	0.00	?UNDEF	?UNDEF
9	1.40	0.00	107.24	:	?UNDEF	?UNDEF	?UNDEF	24.50	0.00	102.65	102.18	25.20	0.00	?UNDEF	?UNDEF
10	1.40	0.00	107.72	:	?UNDEF	?UNDEF	?UNDEF	24.40	0.00	102.64	102.16	25.60	0.00	?UNDEF	?UNDEF
11	1.40	0.00	108.48	:	?UNDEF	?UNDEF	?UNDEF	24.30	0.00	102.41	102.20	25.00	0.00	?UNDEF	?UNDEF
12	1.40	0.00	108.98	:	?UNDEF	?UNDEF	?UNDEF	24.70	0.00	102.43	102.35	24.70	0.00	?UNDEF	?UNDEF
13	1.40	0.00	109.14	:	?UNDEF	?UNDEF	?UNDEF	24.30	0.00	102.75	102.26	24.80	0.00	?UNDEF	?UNDEF
14	1.50	0.00	109.01	:	?UNDEF	?UNDEF	?UNDEF	24.30	0.00	103.18	102.29	24.80	0.00	?UNDEF	?UNDEF
15	1.50	0.00	108.33	:	?UNDEF	?UNDEF	?UNDEF	24.30	0.00	103.19	102.30	24.30	0.00	?UNDEF	?UNDEF
16	1.50	0.00	107.51	:	?UNDEF	?UNDEF	?UNDEF	24.10	0.00	103.19	102.33	24.80	0.00	?UNDEF	?UNDEF
17	1.50	0.00	106.81	:	?UNDEF	?UNDEF	?UNDEF	21.40	0.00	103.26	102.34	24.80	0.00	?UNDEF	?UNDEF
18	1.50	0.00	106.42	:	?UNDEF	?UNDEF	?UNDEF	21.10	0.00	103.26	102.66	25.40	0.00	?UNDEF	?UNDEF
19	1.50	0.00	106.81	:	?UNDEF	?UNDEF	?UNDEF	18.30	0.00	103.55	102.54	22.30	0.00	?UNDEF	?UNDEF
20	1.50	0.00	106.12	:	?UNDEF	?UNDEF	?UNDEF	20.00	0.00	103.68	102.37	24.30	0.00	?UNDEF	?UNDEF
21	1.50	0.00	105.99	:	?UNDEF	?UNDEF	?UNDEF	20.20	0.00	103.53	102.21	22.00	0.00	?UNDEF	?UNDEF
22	1.50	0.00	106.00	:	?UNDEF	?UNDEF	?UNDEF	20.20	0.00	103.41	102.38	21.30	0.00	?UNDEF	?UNDEF
23	1.50	0.00	106.14	:	?UNDEF	?UNDEF	?UNDEF	12.00	0.00	103.22	102.22	12.00	0.00	?UNDEF	?UNDEF
24	1.50	0.00	106.29	:	?UNDEF	?UNDEF	?UNDEF	11.50	0.00	103.10	102.19	11.70	0.00	?UNDEF	?UNDEF
	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB TAILW.	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB TAILW.	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT	
1	15.20	0.00	?UNDEF	?UNDEF	17.80	0.00	105.03	101.42	68.60	0.00	102.72	103.69	102.46	103.48	
2	12.30	0.00	?UNDEF	?UNDEF	11.20	0.00	104.93	101.64	68.60	0.00	102.76	103.73	102.50	103.54	
3	11.70	0.00	?UNDEF	?UNDEF	11.00	0.00	104.75	101.60	75.40	0.00	102.96	103.80	102.52	103.45	
4	11.50	0.00	?UNDEF	?UNDEF	11.20	0.00	104.49	101.54	83.80	0.00	102.92	103.45	102.52	103.28	
5	11.90	0.00	?UNDEF	?UNDEF	11.00	0.00	104.15	101.46	90.70	0.00	102.73	103.29	102.45	103.26	
6	20.50	0.00	?UNDEF	?UNDEF	12.80	0.00	103.88	101.50	122.80	0.00	102.71	103.44	102.59	103.12	
7	24.30	0.00	?UNDEF	?UNDEF	20.20	0.00	103.45	101.60	124.50	0.00	102.94	103.40	102.84	102.98	
8	24.80	0.00	?UNDEF	?UNDEF	25.10	0.00	103.08	101.61	121.00	0.00	103.17	103.36	102.66	102.97	
9	24.70	0.00	?UNDEF	?UNDEF	24.70	0.00	102.91	101.82	104.00	0.00	102.93	103.24	102.63	102.96	
10	24.90	0.00	?UNDEF	?UNDEF	24.50	0.00	102.77	101.99	103.90	0.00	102.89	103.08	102.76	102.94	
11	24.80	0.00	?UNDEF	?UNDEF	24.60	0.00	102.94	102.10	94.30	0.00	102.94	103.23	102.79	102.96	
12	24.80	0.00	?UNDEF	?UNDEF	24.60	0.00	102.91	102.26	93.90	0.00	103.09	103.32	103.08	103.09	
13	24.80	0.00	?UNDEF	?UNDEF	25.00	0.00	102.85	102.83	94.30	0.00	103.17	103.64	103.30	103.29	
14	24.70	0.00	?UNDEF	?UNDEF	24.30	0.00	103.05	102.80	93.90	0.00	103.38	103.71	103.24	103.68	
15	24.70	0.00	?UNDEF	?UNDEF	24.00	0.00	103.14	102.88	93.90	0.00	103.52	103.59	103.25	103.81	
16	24.80	0.00	?UNDEF	?UNDEF	23.90	0.00	103.16	102.97	94.10	0.00	103.68	103.60	103.12	103.97	
17	24.80	0.00	?UNDEF	?UNDEF	24.60	0.00	103.13	102.83	103.90	0.00	103.69	103.34	103.15	103.95	
18	24.70	0.00	?UNDEF	?UNDEF	24.70	0.00	103.02	102.55	106.30	0.00	103.84	103.22	103.05	104.01	
19	24.90	0.00	?UNDEF	?UNDEF	24.70	0.00	102.77	102.32	105.90	0.00	103.69	103.19	102.89	103.85	
20	24.70	0.00	?UNDEF	?UNDEF	25.20	0.00	102.47	102.03	122.70	0.00	103.65	103.18	102.89	103.69	
21	21.00	0.00	?UNDEF	?UNDEF	21.10	0.00	102.42	101.86	118.50	0.00	103.58	102.98	102.81	103.41	
22	20.90	0.00	?UNDEF	?UNDEF	20.10	0.00	102.26	101.71	116.20	0.00	103.59	102.85	102.78	103.24	
23	12.40	0.00	?UNDEF	?UNDEF	11.60	0.00	102.28	101.57	83.80	0.00	103.51	102.78	102.59	102.99	
24	12.10	0.00	?UNDEF	?UNDEF	10.90	0.00	102.27	101.43	73.00	0.00	103.42	102.80	102.75	102.99	

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WALLA WALLA DISTRICT HYDRO PROJECTS
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	DWORSHAK			STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.40	0.00	106.25	?UNDEF	?UNDEF	?UNDEF	13.00	0.00	101.88	101.54	12.70	0.00	?UNDEF	?UNDEF
2	1.40	0.00	106.20	?UNDEF	?UNDEF	?UNDEF	12.80	0.00	102.00	101.52	12.40	0.00	?UNDEF	?UNDEF
3	1.40	0.00	106.19	?UNDEF	?UNDEF	?UNDEF	12.60	0.00	101.96	101.40	12.60	0.00	?UNDEF	?UNDEF
4	1.40	0.00	106.05	?UNDEF	?UNDEF	?UNDEF	15.70	0.00	102.08	101.34	15.90	0.00	?UNDEF	?UNDEF
5	1.40	0.00	106.19	?UNDEF	?UNDEF	?UNDEF	15.90	0.00	102.08	101.34	16.10	0.00	?UNDEF	?UNDEF
6	1.40	0.00	106.19	?UNDEF	?UNDEF	?UNDEF	16.00	0.00	101.95	101.22	16.30	0.00	?UNDEF	?UNDEF
7	1.40	0.00	106.28	?UNDEF	?UNDEF	?UNDEF	28.20	0.00	101.68	101.36	22.20	0.00	?UNDEF	?UNDEF
8	1.40	0.00	106.55	?UNDEF	?UNDEF	?UNDEF	28.80	0.00	102.08	101.61	28.80	0.00	?UNDEF	?UNDEF
9	1.40	0.00	106.62	?UNDEF	?UNDEF	?UNDEF	25.00	0.00	102.10	101.77	25.60	0.00	?UNDEF	?UNDEF
10	1.40	0.00	107.12	?UNDEF	?UNDEF	?UNDEF	25.00	0.00	101.99	101.88	25.20	0.00	?UNDEF	?UNDEF
11	1.40	0.00	107.64	?UNDEF	?UNDEF	?UNDEF	24.90	0.00	102.06	102.10	25.00	0.00	?UNDEF	?UNDEF
12	1.40	0.00	108.30	?UNDEF	?UNDEF	?UNDEF	21.80	0.00	102.45	102.20	21.90	0.00	?UNDEF	?UNDEF
13	1.40	0.00	108.95	?UNDEF	?UNDEF	?UNDEF	18.20	0.00	102.38	102.31	21.60	0.00	?UNDEF	?UNDEF
14	1.40	0.00	109.34	?UNDEF	?UNDEF	?UNDEF	18.00	0.00	102.70	102.23	18.50	0.00	?UNDEF	?UNDEF
15	1.40	0.00	109.40	?UNDEF	?UNDEF	?UNDEF	18.00	0.00	102.75	102.26	18.30	0.00	?UNDEF	?UNDEF
16	1.40	0.00	109.19	?UNDEF	?UNDEF	?UNDEF	15.90	0.00	104.30	102.35	16.20	0.00	?UNDEF	?UNDEF
17	1.40	0.00	108.57	?UNDEF	?UNDEF	?UNDEF	16.10	0.00	104.08	102.26	16.00	0.00	?UNDEF	?UNDEF
18	1.40	0.00	107.69	?UNDEF	?UNDEF	?UNDEF	15.90	0.00	104.51	102.25	16.10	0.00	?UNDEF	?UNDEF
19	1.40	0.00	108.57	?UNDEF	?UNDEF	?UNDEF	20.10	0.00	104.06	102.23	21.20	0.00	?UNDEF	?UNDEF
20	1.40	0.00	106.64	?UNDEF	?UNDEF	?UNDEF	20.30	0.00	103.78	102.20	21.60	0.00	?UNDEF	?UNDEF
21	1.40	0.00	106.45	?UNDEF	?UNDEF	?UNDEF	20.40	0.00	103.92	102.25	21.50	0.00	?UNDEF	?UNDEF
22	1.40	0.00	106.42	?UNDEF	?UNDEF	?UNDEF	21.10	0.00	103.90	102.10	21.80	0.00	?UNDEF	?UNDEF
23	1.40	0.00	106.42	?UNDEF	?UNDEF	?UNDEF	19.40	0.00	103.80	101.99	19.30	0.00	?UNDEF	?UNDEF
24	1.40	0.00	106.41	?UNDEF	?UNDEF	?UNDEF	19.30	0.00	103.41	102.02	15.70	0.00	?UNDEF	?UNDEF
	LOWER MONUMENTAL			ICE HARBOR			MCNARY				PASCO			
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB %SAT. TAILW.	GAS % SAT			
1	17.90	0.00	?UNDEF ?UNDEF	18.60	0.00	102.23	100.57	90.30	0.00	102.00	102.17	101.59	102.80	
2	17.90	0.00	?UNDEF ?UNDEF	18.20	0.00	102.60	100.59	87.10	0.00	101.98	102.14	101.46	102.68	
3	18.20	0.00	?UNDEF ?UNDEF	17.90	0.00	102.98	100.59	89.70	0.00	101.75	102.20	101.60	102.61	
4	17.90	0.00	?UNDEF ?UNDEF	17.80	0.00	102.34	100.59	89.80	0.00	101.83	102.16	101.46	102.40	
5	17.90	0.00	?UNDEF ?UNDEF	17.90	0.00	101.93	100.68	106.90	0.00	101.56	102.14	101.46	102.27	
6	18.00	0.00	?UNDEF ?UNDEF	17.90	0.00	102.05	100.65	143.30	0.00	101.69	102.26	101.68	102.28	
7	18.30	0.00	?UNDEF ?UNDEF	18.10	0.00	102.31	100.69	145.10	0.00	101.65	102.25	101.83	102.18	
8	28.20	0.00	?UNDEF ?UNDEF	24.90	0.00	102.41	100.68	143.20	0.00	101.64	102.25	101.94	101.97	
9	25.30	0.00	?UNDEF ?UNDEF	25.20	0.00	102.56	100.83	143.80	0.00	101.93	102.39	102.10	102.14	
10	25.00	0.00	?UNDEF ?UNDEF	25.10	0.00	102.41	101.13	134.10	0.00	102.09	102.51	102.18	102.26	
11	25.10	0.00	?UNDEF ?UNDEF	25.30	0.00	102.94	101.42	131.40	0.00	102.51	102.72	102.41	102.57	
12	21.20	0.00	?UNDEF ?UNDEF	20.60	0.00	103.99	101.62	125.40	0.00	103.62	102.83	102.58	103.05	
13	21.50	0.00	?UNDEF ?UNDEF	20.30	0.00	104.77	102.43	117.50	0.00	104.53	103.04	102.84	103.53	
14	18.20	0.00	?UNDEF ?UNDEF	18.10	0.00	104.59	102.48	118.50	0.00	103.95	103.12	102.94	103.91	
15	18.00	0.00	?UNDEF ?UNDEF	18.10	0.00	103.97	102.65	125.80	0.00	103.47	102.92	103.13	104.26	
16	16.00	0.00	?UNDEF ?UNDEF	18.10	0.00	103.65	102.78	127.60	0.00	103.28	103.10	103.08	104.60	
17	17.90	0.00	?UNDEF ?UNDEF	18.10	0.00	103.32	102.72	128.90	0.00	103.23	103.31	103.01	104.69	
18	18.70	0.00	?UNDEF ?UNDEF	18.10	0.00	103.10	102.63	131.20	0.00	103.32	103.45	103.04	104.70	
19	20.90	0.00	?UNDEF ?UNDEF	20.50	0.00	103.10	102.35	130.90	0.00	103.12	103.72	102.88	104.53	
20	21.10	0.00	?UNDEF ?UNDEF	20.30	0.00	102.82	102.09	123.90	0.00	103.02	103.87	102.75	104.45	
21	20.90	0.00	?UNDEF ?UNDEF	20.30	0.00	102.72	101.84	121.00	0.00	102.98	103.96	102.75	104.26	
22	21.20	0.00	?UNDEF ?UNDEF	23.00	0.00	102.85	101.60	106.60	0.00	102.76	104.01	102.63	104.03	
23	19.50	0.00	?UNDEF ?UNDEF	23.00	0.00	104.15	101.64	75.50	0.00	102.75	103.94	102.46	103.76	
24	18.10	0.00	?UNDEF ?UNDEF	18.10	0.00	104.97	101.46	71.50	0.00	102.80	103.81	102.40	103.76	

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WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

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	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.40	0.00	105.98	?UNDEF	?UNDEF	?UNDEF	17.50	0.00	102.45	101.32	12.90	0.00	?UNDEF	?UNDEF
2	1.40	0.00	105.95	?UNDEF	?UNDEF	?UNDEF	17.70	0.00	102.35	101.32	12.70	0.00	?UNDEF	?UNDEF
3	1.40	0.00	105.97	?UNDEF	?UNDEF	?UNDEF	17.40	0.00	102.29	101.29	12.60	0.00	?UNDEF	?UNDEF
4	1.40	0.00	105.95	?UNDEF	?UNDEF	?UNDEF	19.80	0.00	102.25	101.14	12.60	0.00	?UNDEF	?UNDEF
5	1.40	0.00	105.90	?UNDEF	?UNDEF	?UNDEF	20.00	0.00	101.80	101.12	12.30	0.00	?UNDEF	?UNDEF
6	1.40	0.00	105.87	?UNDEF	?UNDEF	?UNDEF	20.10	0.00	101.65	101.08	12.90	0.00	?UNDEF	?UNDEF
7	1.40	0.00	105.96	?UNDEF	?UNDEF	?UNDEF	25.50	0.00	101.49	101.01	25.70	0.00	?UNDEF	?UNDEF
8	1.40	0.00	106.05	?UNDEF	?UNDEF	?UNDEF	25.30	0.00	101.76	101.04	26.30	0.00	?UNDEF	?UNDEF
9	1.50	0.00	106.38	?UNDEF	?UNDEF	?UNDEF	25.30	0.00	101.74	101.17	27.20	0.00	?UNDEF	?UNDEF
10	1.50	0.00	106.31	?UNDEF	?UNDEF	?UNDEF	24.60	0.00	101.71	101.34	24.10	0.00	?UNDEF	?UNDEF
11	1.50	0.00	106.04	?UNDEF	?UNDEF	?UNDEF	24.30	0.00	101.75	101.66	23.70	0.00	?UNDEF	?UNDEF
12	1.50	0.00	106.15	?UNDEF	?UNDEF	?UNDEF	24.60	0.00	101.84	101.88	23.90	0.00	?UNDEF	?UNDEF
13	1.50	0.00	106.54	?UNDEF	?UNDEF	?UNDEF	22.60	0.00	102.03	102.09	21.70	0.00	?UNDEF	?UNDEF
14	1.50	0.00	106.79	?UNDEF	?UNDEF	?UNDEF	20.60	0.00	102.51	102.16	22.20	0.00	?UNDEF	?UNDEF
15	1.50	0.00	106.71	?UNDEF	?UNDEF	?UNDEF	20.60	0.00	102.30	102.20	21.60	0.00	?UNDEF	?UNDEF
16	1.40	0.00	106.45	?UNDEF	?UNDEF	?UNDEF	16.50	0.00	102.59	102.08	16.70	0.00	?UNDEF	?UNDEF
17	1.40	0.00	106.50	?UNDEF	?UNDEF	?UNDEF	17.00	0.00	102.62	102.00	17.90	0.00	?UNDEF	?UNDEF
18	1.40	0.00	106.72	?UNDEF	?UNDEF	?UNDEF	26.50	0.00	102.59	102.09	27.90	0.00	?UNDEF	?UNDEF
19	1.40	0.00	106.50	?UNDEF	?UNDEF	?UNDEF	26.90	0.00	102.53	101.79	27.80	0.00	?UNDEF	?UNDEF
20	1.40	0.00	106.30	?UNDEF	?UNDEF	?UNDEF	27.10	0.00	102.63	101.62	28.20	0.00	?UNDEF	?UNDEF
21	1.40	0.00	106.24	?UNDEF	?UNDEF	?UNDEF	33.90	0.00	102.51	101.45	31.60	0.00	?UNDEF	?UNDEF
22	1.40	0.00	106.20	?UNDEF	?UNDEF	?UNDEF	33.50	0.00	102.20	101.45	31.90	0.00	?UNDEF	?UNDEF
23	1.40	0.00	106.14	?UNDEF	?UNDEF	?UNDEF	26.00	0.00	102.19	101.45	24.80	0.00	?UNDEF	?UNDEF
24	1.40	0.00	106.26	?UNDEF	?UNDEF	?UNDEF	20.50	0.00	102.02	101.42	17.40	0.00	?UNDEF	?UNDEF
	LOWER MONUMENTAL			ICE HARBOR			MCNARY			PASCO				
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	12.90	0.00	?UNDEF	?UNDEF	12.60	0.00	101.21	100.36	77.10	0.00	101.54	101.83	101.15	101.86
2	13.00	0.00	?UNDEF	?UNDEF	12.50	0.00	101.06	100.19	76.10	0.00	101.48	101.66	100.99	101.69
3	13.00	0.00	?UNDEF	?UNDEF	12.70	0.00	101.05	100.21	80.00	0.00	101.34	101.66	100.98	101.55
4	13.00	0.00	?UNDEF	?UNDEF	12.70	0.00	100.90	100.19	83.80	0.00	101.50	101.63	100.95	101.52
5	13.00	0.00	?UNDEF	?UNDEF	12.70	0.00	100.73	100.13	111.90	0.00	101.30	101.33	101.03	101.34
6	13.20	0.00	?UNDEF	?UNDEF	12.70	0.00	100.71	100.12	126.50	0.00	101.14	101.20	101.13	101.17
7	20.70	0.00	?UNDEF	?UNDEF	17.60	0.00	100.67	100.08	150.20	0.00	101.10	101.30	101.11	101.17
8	24.60	0.00	?UNDEF	?UNDEF	25.40	0.00	100.64	100.12	153.00	0.00	101.18	101.52	101.09	101.10
9	24.80	0.00	?UNDEF	?UNDEF	25.10	0.00	100.59	100.45	145.50	0.00	101.34	101.67	101.30	101.14
10	24.90	0.00	?UNDEF	?UNDEF	23.30	0.00	100.65	100.53	143.60	0.00	101.87	101.66	101.46	101.43
11	24.80	0.00	?UNDEF	?UNDEF	25.20	0.00	101.06	100.81	144.60	0.00	102.30	101.75	101.51	101.85
12	24.80	0.00	?UNDEF	?UNDEF	25.20	0.00	102.19	101.12	150.90	0.00	102.47	101.79	101.73	102.15
13	21.00	0.00	?UNDEF	?UNDEF	21.90	0.00	103.08	101.84	116.50	0.00	102.78	102.00	101.93	102.68
14	21.00	0.00	?UNDEF	?UNDEF	21.70	0.00	103.40	101.73	97.30	0.00	102.90	102.21	102.14	103.29
15	21.10	0.00	?UNDEF	?UNDEF	21.60	0.00	102.80	101.89	93.70	0.00	102.83	102.26	102.21	103.62
16	17.10	0.00	?UNDEF	?UNDEF	19.10	0.00	102.46	101.89	95.90	0.00	102.78	102.32	102.13	103.92
17	17.20	0.00	?UNDEF	?UNDEF	19.70	0.00	102.16	101.92	94.20	0.00	102.79	102.34	102.01	104.09
18	27.10	0.00	?UNDEF	?UNDEF	30.10	0.00	105.40	101.66	99.50	0.00	102.51	102.46	101.91	104.11
19	27.90	0.00	?UNDEF	?UNDEF	30.20	0.00	103.05	101.37	122.70	0.00	102.33	102.58	101.68	103.95
20	27.50	0.00	?UNDEF	?UNDEF	30.10	0.00	101.85	101.25	119.00	0.00	102.08	102.67	101.74	103.77
21	31.20	0.00	?UNDEF	?UNDEF	30.20	0.00	101.52	101.08	119.80	0.00	101.93	102.79	101.83	103.59
22	31.20	0.00	?UNDEF	?UNDEF	30.10	0.00	101.57	100.77	114.10	0.00	101.78	102.38	101.67	103.27
23	31.40	0.00	?UNDEF	?UNDEF	30.10	0.00	101.60	100.74	95.00	0.00	101.88	102.24	101.64	103.15
24	25.60	0.00	?UNDEF	?UNDEF	27.90	0.00	102.01	100.65	99.60	0.00	102.02	102.21	101.64	103.15

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	DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	
1	1.40	0.00	106.76	?UNDEF	?UNDEF	?UNDEF	12.60	0.00	102.74	102.66	12.40	0.00	?UNDEF	?UNDEF	
2	1.40	0.00	106.72	?UNDEF	?UNDEF	?UNDEF	11.80	0.00	102.57	102.62	12.60	0.00	?UNDEF	?UNDEF	
3	1.40	0.00	106.84	?UNDEF	?UNDEF	?UNDEF	12.20	0.00	102.51	102.44	12.40	0.00	?UNDEF	?UNDEF	
4	1.40	0.00	106.74	?UNDEF	?UNDEF	?UNDEF	12.50	0.00	102.45	102.23	12.40	0.00	?UNDEF	?UNDEF	
5	1.40	0.00	106.68	?UNDEF	?UNDEF	?UNDEF	13.70	0.00	102.40	102.02	12.20	0.00	?UNDEF	?UNDEF	
6	1.40	0.00	106.59	?UNDEF	?UNDEF	?UNDEF	16.30	0.00	102.31	102.22	12.50	0.00	?UNDEF	?UNDEF	
7	1.40	0.00	106.64	?UNDEF	?UNDEF	?UNDEF	24.20	0.00	102.24	102.21	21.90	0.00	?UNDEF	?UNDEF	
8	1.40	0.00	107.02	?UNDEF	?UNDEF	?UNDEF	24.20	0.00	102.20	102.25	21.90	0.00	?UNDEF	?UNDEF	
9	1.40	0.00	107.22	?UNDEF	?UNDEF	?UNDEF	24.70	0.00	102.08	102.29	22.40	0.00	?UNDEF	?UNDEF	
10	1.40	0.00	107.78	?UNDEF	?UNDEF	?UNDEF	24.60	0.00	102.16	102.18	22.10	0.00	?UNDEF	?UNDEF	
11	1.40	0.00	108.16	?UNDEF	?UNDEF	?UNDEF	19.80	0.00	102.40	102.44	16.90	0.00	?UNDEF	?UNDEF	
12	1.40	0.00	108.46	?UNDEF	?UNDEF	?UNDEF	16.80	0.00	102.53	102.31	14.80	0.00	?UNDEF	?UNDEF	
13	1.40	0.00	108.52	?UNDEF	?UNDEF	?UNDEF	16.70	0.00	102.74	102.37	15.30	0.00	?UNDEF	?UNDEF	
14	1.40	0.00	108.53	?UNDEF	?UNDEF	?UNDEF	15.00	0.00	102.75	102.50	13.50	0.00	?UNDEF	?UNDEF	
15	1.40	0.00	108.38	?UNDEF	?UNDEF	?UNDEF	15.10	0.00	103.78	102.63	13.60	0.00	?UNDEF	?UNDEF	
16	1.40	0.00	108.41	?UNDEF	?UNDEF	?UNDEF	17.00	0.00	103.89	102.34	16.10	0.00	?UNDEF	?UNDEF	
17	1.40	0.00	108.05	?UNDEF	?UNDEF	?UNDEF	17.70	0.00	103.49	102.15	13.30	0.00	?UNDEF	?UNDEF	
18	1.40	0.00	107.47	?UNDEF	?UNDEF	?UNDEF	17.70	0.00	102.85	101.96	13.30	0.00	?UNDEF	?UNDEF	
19	1.40	0.00	108.05	?UNDEF	?UNDEF	?UNDEF	17.70	0.00	102.62	101.85	13.00	0.00	?UNDEF	?UNDEF	
20	1.40	0.00	106.34	?UNDEF	?UNDEF	?UNDEF	18.00	0.00	102.30	101.64	13.00	0.00	?UNDEF	?UNDEF	
21	1.40	0.00	106.25	?UNDEF	?UNDEF	?UNDEF	17.60	0.00	102.61	101.61	13.00	0.00	?UNDEF	?UNDEF	
22	1.40	0.00	106.18	?UNDEF	?UNDEF	?UNDEF	18.30	0.00	102.92	101.41	13.10	0.00	?UNDEF	?UNDEF	
23	1.40	0.00	106.14	?UNDEF	?UNDEF	?UNDEF	16.80	0.00	102.91	101.40	12.80	0.00	?UNDEF	?UNDEF	
24	1.40	0.00	106.01	?UNDEF	?UNDEF	?UNDEF	17.50	0.00	103.18	101.36	12.90	0.00	?UNDEF	?UNDEF	
	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT	
1	11.70	0.00	?UNDEF	?UNDEF	9.80	0.00	101.40	100.80	53.80	0.00	102.81	102.10	102.03	102.00	
2	12.20	0.00	?UNDEF	?UNDEF	9.80	0.00	101.34	100.79	51.20	0.00	102.77	102.02	101.97	101.97	
3	13.30	0.00	?UNDEF	?UNDEF	10.00	0.00	101.32	100.69	55.70	0.00	102.70	101.96	101.89	101.77	
4	13.50	0.00	?UNDEF	?UNDEF	10.10	0.00	101.22	100.66	59.80	0.00	102.62	101.90	101.84	101.73	
5	13.10	0.00	?UNDEF	?UNDEF	10.00	0.00	101.18	100.75	119.70	0.00	102.48	101.86	101.92	101.57	
6	13.50	0.00	?UNDEF	?UNDEF	10.00	0.00	101.11	100.71	132.90	0.00	102.39	101.76	101.97	101.47	
7	21.00	0.00	?UNDEF	?UNDEF	13.10	0.00	101.04	100.63	160.70	0.00	102.17	101.56	101.78	101.31	
8	21.40	0.00	?UNDEF	?UNDEF	20.80	0.00	100.91	100.68	158.10	0.00	102.15	101.43	101.77	101.13	
9	21.40	0.00	?UNDEF	?UNDEF	21.20	0.00	100.84	100.73	157.60	0.00	102.06	101.51	101.83	101.09	
10	21.30	0.00	?UNDEF	?UNDEF	21.10	0.00	100.83	100.97	159.00	0.00	102.19	101.47	101.92	101.21	
11	17.40	0.00	?UNDEF	?UNDEF	21.20	0.00	100.79	101.04	162.20	0.00	102.29	101.69	102.03	101.46	
12	14.40	0.00	?UNDEF	?UNDEF	21.00	0.00	100.91	101.29	133.20	0.00	102.40	101.69	102.16	101.73	
13	14.00	0.00	?UNDEF	?UNDEF	18.00	0.00	101.47	101.81	119.30	0.00	102.57	101.74	102.30	102.13	
14	13.30	0.00	?UNDEF	?UNDEF	14.20	0.00	102.03	101.63	107.40	0.00	102.97	101.92	102.50	102.54	
15	13.30	0.00	?UNDEF	?UNDEF	14.10	0.00	102.16	101.88	105.40	0.00	103.02	102.03	102.49	102.78	
16	16.00	0.00	?UNDEF	?UNDEF	14.10	0.00	102.03	101.83	92.10	0.00	103.07	102.12	102.34	103.04	
17	13.00	0.00	?UNDEF	?UNDEF	12.40	0.00	101.71	101.89	101.70	0.00	102.70	102.14	102.17	103.35	
18	13.00	0.00	?UNDEF	?UNDEF	13.00	0.00	101.57	101.85	102.50	0.00	102.39	101.93	102.00	103.25	
19	12.80	0.00	?UNDEF	?UNDEF	12.90	0.00	101.34	101.55	111.90	0.00	102.04	101.86	101.79	103.20	
20	12.80	0.00	?UNDEF	?UNDEF	12.90	0.00	101.31	101.35	104.10	0.00	101.87	101.81	101.61	103.04	
21	13.00	0.00	?UNDEF	?UNDEF	12.90	0.00	101.26	101.05	105.10	0.00	101.55	101.73	101.44	102.68	
22	12.90	0.00	?UNDEF	?UNDEF	12.80	0.00	101.19	100.78	84.10	0.00	101.38	101.69	101.41	102.47	
23	13.00	0.00	?UNDEF	?UNDEF	12.70	0.00	101.14	100.61	75.90	0.00	101.21	101.78	101.20	102.28	
24	12.90	0.00	?UNDEF	?UNDEF	12.80	0.00	101.09	100.42	73.70	0.00	101.14	101.84	101.15	102.28	

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	DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	
1	1.40	0.00	106.36	?UNDEF	?UNDEF	?UNDEF	11.80	0.00	102.76	102.57	11.90	0.00	?UNDEF	?UNDEF	
2	1.40	0.00	106.35	?UNDEF	?UNDEF	?UNDEF	11.90	0.00	102.77	102.43	11.70	0.00	?UNDEF	?UNDEF	
3	1.40	0.00	106.35	?UNDEF	?UNDEF	?UNDEF	11.90	0.00	102.78	102.43	12.10	0.00	?UNDEF	?UNDEF	
4	1.40	0.00	106.30	?UNDEF	?UNDEF	?UNDEF	12.00	0.00	102.73	102.41	11.80	0.00	?UNDEF	?UNDEF	
5	1.40	0.00	106.27	?UNDEF	?UNDEF	?UNDEF	11.90	0.00	102.74	102.41	11.80	0.00	?UNDEF	?UNDEF	
6	1.40	0.00	106.27	?UNDEF	?UNDEF	?UNDEF	14.20	0.00	102.60	102.43	11.80	0.00	?UNDEF	?UNDEF	
7	1.40	0.00	106.42	?UNDEF	?UNDEF	?UNDEF	15.60	0.00	102.61	102.43	11.80	0.00	?UNDEF	?UNDEF	
8	1.40	0.00	106.54	?UNDEF	?UNDEF	?UNDEF	17.80	0.00	102.76	102.51	11.70	0.00	?UNDEF	?UNDEF	
9	1.40	0.00	106.92	?UNDEF	?UNDEF	?UNDEF	18.30	0.00	102.80	102.87	11.90	0.00	?UNDEF	?UNDEF	
10	1.40	0.00	107.26	?UNDEF	?UNDEF	?UNDEF	17.80	0.00	102.84	102.93	11.60	0.00	?UNDEF	?UNDEF	
11	1.40	0.00	107.80	?UNDEF	?UNDEF	?UNDEF	17.90	0.00	103.04	103.10	11.50	0.00	?UNDEF	?UNDEF	
12	1.40	0.00	108.41	?UNDEF	?UNDEF	?UNDEF	20.30	0.00	102.99	103.28	11.70	0.00	?UNDEF	?UNDEF	
13	1.40	0.00	108.86	?UNDEF	?UNDEF	?UNDEF	20.40	0.00	103.24	103.31	11.90	0.00	?UNDEF	?UNDEF	
14	1.40	0.00	109.09	?UNDEF	?UNDEF	?UNDEF	19.40	0.00	103.35	103.38	14.50	0.00	?UNDEF	?UNDEF	
15	1.40	0.00	108.72	?UNDEF	?UNDEF	?UNDEF	19.00	0.00	103.56	103.31	14.80	0.00	?UNDEF	?UNDEF	
16	1.40	0.00	108.22	?UNDEF	?UNDEF	?UNDEF	19.10	0.00	103.41	103.29	14.90	0.00	?UNDEF	?UNDEF	
17	1.40	0.00	107.80	?UNDEF	?UNDEF	?UNDEF	19.90	0.00	103.42	103.18	17.00	0.00	?UNDEF	?UNDEF	
18	1.40	0.00	107.36	?UNDEF	?UNDEF	?UNDEF	20.40	0.00	103.24	102.97	17.30	0.00	?UNDEF	?UNDEF	
19	1.40	0.00	107.80	?UNDEF	?UNDEF	?UNDEF	20.00	0.00	103.19	102.93	17.10	0.00	?UNDEF	?UNDEF	
20	1.40	0.00	106.82	?UNDEF	?UNDEF	?UNDEF	17.00	0.00	103.05	102.92	12.30	0.00	?UNDEF	?UNDEF	
21	1.40	0.00	106.75	?UNDEF	?UNDEF	?UNDEF	16.70	0.00	102.86	102.89	12.30	0.00	?UNDEF	?UNDEF	
22	1.40	0.00	106.71	?UNDEF	?UNDEF	?UNDEF	16.70	0.00	102.81	102.73	13.20	0.00	?UNDEF	?UNDEF	
23	1.40	0.00	106.71	?UNDEF	?UNDEF	?UNDEF	16.80	0.00	102.81	102.74	13.10	0.00	?UNDEF	?UNDEF	
24	1.40	0.00	106.85	?UNDEF	?UNDEF	?UNDEF	13.80	0.00	102.82	102.73	13.00	0.00	?UNDEF	?UNDEF	
	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT	
1	11.60	0.00	?UNDEF	?UNDEF	9.80	0.00	101.63	100.91	85.30	0.00	102.84	102.77	102.44	102.24	
2	12.00	0.00	?UNDEF	?UNDEF	10.00	0.00	101.63	100.79	87.90	0.00	102.89	102.80	102.45	101.97	
3	11.90	0.00	?UNDEF	?UNDEF	10.00	0.00	101.64	100.79	79.50	0.00	102.78	102.84	102.36	101.99	
4	12.10	0.00	?UNDEF	?UNDEF	9.90	0.00	101.61	100.80	86.20	0.00	102.78	102.69	102.33	101.81	
5	11.90	0.00	?UNDEF	?UNDEF	9.90	0.00	101.47	100.64	88.20	0.00	102.78	102.55	102.21	101.71	
6	11.90	0.00	?UNDEF	?UNDEF	10.10	0.00	101.46	100.66	97.60	0.00	102.76	102.43	102.21	101.71	
7	11.90	0.00	?UNDEF	?UNDEF	10.00	0.00	101.47	100.66	107.10	0.00	102.82	102.35	102.25	101.71	
8	12.00	0.00	?UNDEF	?UNDEF	10.10	0.00	101.52	100.72	108.90	0.00	102.80	102.48	102.39	101.62	
9	11.90	0.00	?UNDEF	?UNDEF	12.40	0.00	101.52	100.89	104.90	0.00	102.96	102.52	102.53	101.78	
10	11.90	0.00	?UNDEF	?UNDEF	12.50	0.00	101.56	101.09	102.20	0.00	102.98	102.55	102.82	101.96	
11	11.80	0.00	?UNDEF	?UNDEF	11.50	0.00	101.64	101.38	102.00	0.00	103.12	102.55	102.98	102.12	
12	11.80	0.00	?UNDEF	?UNDEF	11.40	0.00	101.78	101.63	102.30	0.00	103.18	102.60	102.88	102.44	
13	11.90	0.00	?UNDEF	?UNDEF	11.50	0.00	102.06	102.13	103.60	0.00	103.21	102.67	102.93	102.70	
14	13.50	0.00	?UNDEF	?UNDEF	12.70	0.00	102.11	102.36	99.10	0.00	103.30	102.82	103.05	102.86	
15	13.80	0.00	?UNDEF	?UNDEF	17.40	0.00	102.23	102.46	96.50	0.00	103.34	102.70	102.93	103.06	
16	13.90	0.00	?UNDEF	?UNDEF	17.80	0.00	102.30	102.54	96.40	0.00	103.28	102.85	102.86	103.06	
17	16.60	0.00	?UNDEF	?UNDEF	18.50	0.00	102.30	102.39	98.20	0.00	103.29	102.81	102.86	103.22	
18	17.00	0.00	?UNDEF	?UNDEF	18.60	0.00	102.24	102.20	98.90	0.00	103.21	102.75	102.64	103.04	
19	16.90	0.00	?UNDEF	?UNDEF	18.50	0.00	102.07	101.86	116.80	0.00	103.25	102.65	102.44	102.95	
20	13.70	0.00	?UNDEF	?UNDEF	18.00	0.00	101.87	101.64	98.10	0.00	103.14	102.57	102.48	102.79	
21	13.10	0.00	?UNDEF	?UNDEF	10.20	0.00	101.83	101.37	96.40	0.00	103.07	102.50	102.42	102.63	
22	13.00	0.00	?UNDEF	?UNDEF	9.70	0.00	101.68	101.25	84.30	0.00	103.02	102.43	102.32	102.59	
23	13.00	0.00	?UNDEF	?UNDEF	9.90	0.00	101.47	101.05	75.20	0.00	102.96	102.35	102.18	102.46	
24	12.60	0.00	?UNDEF	?UNDEF	9.70	0.00	101.44	100.89	73.60	0.00	102.87	102.26	102.20	102.46	

03 MAR 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

03 MAR 2001

	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.40	0.00	106.45	?UNDEF	?UNDEF	?UNDEF	11.50	0.00	102.57	102.61	11.90	0.00	?UNDEF	?UNDEF
2	1.40	0.00	106.40	?UNDEF	?UNDEF	?UNDEF	11.60	0.00	102.38	102.46	11.90	0.00	?UNDEF	?UNDEF
3	1.40	0.00	106.42	?UNDEF	?UNDEF	?UNDEF	11.50	0.00	102.41	102.42	11.90	0.00	?UNDEF	?UNDEF
4	1.40	0.00	106.35	?UNDEF	?UNDEF	?UNDEF	11.70	0.00	102.36	102.37	11.80	0.00	?UNDEF	?UNDEF
5	1.40	0.00	106.27	?UNDEF	?UNDEF	?UNDEF	11.50	0.00	102.31	102.23	11.80	0.00	?UNDEF	?UNDEF
6	1.40	0.00	106.23	?UNDEF	?UNDEF	?UNDEF	11.40	0.00	102.23	102.31	11.60	0.00	?UNDEF	?UNDEF
7	1.40	0.00	106.35	?UNDEF	?UNDEF	?UNDEF	11.40	0.00	102.19	102.37	11.90	0.00	?UNDEF	?UNDEF
8	1.40	0.00	106.59	?UNDEF	?UNDEF	?UNDEF	16.20	0.00	102.33	102.37	15.20	0.00	?UNDEF	?UNDEF
9	1.40	0.00	106.98	?UNDEF	?UNDEF	?UNDEF	17.70	0.00	102.48	102.93	15.30	0.00	?UNDEF	?UNDEF
10	1.40	0.00	107.30	?UNDEF	?UNDEF	?UNDEF	17.90	0.00	102.55	102.85	18.20	0.00	?UNDEF	?UNDEF
11	1.40	0.00	107.73	?UNDEF	?UNDEF	?UNDEF	18.00	0.00	102.61	103.00	18.80	0.00	?UNDEF	?UNDEF
12	1.40	0.00	108.39	?UNDEF	?UNDEF	?UNDEF	17.90	0.00	102.82	102.96	18.80	0.00	?UNDEF	?UNDEF
13	1.40	0.00	108.91	?UNDEF	?UNDEF	?UNDEF	18.30	0.00	000.00	103.04	18.80	0.00	?UNDEF	?UNDEF
14	1.40	0.00	108.94	?UNDEF	?UNDEF	?UNDEF	17.90	0.00	103.16	103.07	18.40	0.00	?UNDEF	?UNDEF
15	1.40	0.00	108.70	?UNDEF	?UNDEF	?UNDEF	18.00	0.00	103.32	102.98	18.60	0.00	?UNDEF	?UNDEF
16	1.40	0.00	108.47	?UNDEF	?UNDEF	?UNDEF	18.00	0.00	102.95	102.99	18.50	0.00	?UNDEF	?UNDEF
17	1.40	0.00	107.81	?UNDEF	?UNDEF	?UNDEF	15.10	0.00	103.14	102.90	15.20	0.00	?UNDEF	?UNDEF
18	1.40	0.00	107.10	?UNDEF	?UNDEF	?UNDEF	15.40	0.00	103.11	102.74	14.50	0.00	?UNDEF	?UNDEF
19	1.40	0.00	107.81	?UNDEF	?UNDEF	?UNDEF	15.00	0.00	103.11	102.76	14.60	0.00	?UNDEF	?UNDEF
20	1.40	0.00	106.52	?UNDEF	?UNDEF	?UNDEF	14.80	0.00	103.00	102.78	15.00	0.00	?UNDEF	?UNDEF
21	1.40	0.00	106.48	?UNDEF	?UNDEF	?UNDEF	14.70	0.00	102.96	102.75	15.10	0.00	?UNDEF	?UNDEF
22	1.40	0.00	106.46	?UNDEF	?UNDEF	?UNDEF	14.70	0.00	102.96	102.64	14.80	0.00	?UNDEF	?UNDEF
23	1.40	0.00	106.30	?UNDEF	?UNDEF	?UNDEF	15.00	0.00	103.00	102.76	14.70	0.00	?UNDEF	?UNDEF
24	1.40	0.00	106.45	?UNDEF	?UNDEF	?UNDEF	11.90	0.00	102.93	102.60	12.00	0.00	?UNDEF	?UNDEF
	LOWER MONUMENTAL			ICE HARBOR			MCNARY			PASCO				
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	11.80	0.00	?UNDEF	?UNDEF	9.80	0.00	101.08	100.68	86.70	0.00	102.17	102.30	102.18	101.61
2	12.00	0.00	?UNDEF	?UNDEF	9.80	0.00	101.08	100.50	86.50	0.00	102.44	102.05	102.00	101.46
3	11.80	0.00	?UNDEF	?UNDEF	9.80	0.00	101.06	100.37	86.60	0.00	102.62	102.04	102.07	101.47
4	11.80	0.00	?UNDEF	?UNDEF	9.80	0.00	101.00	100.29	86.00	0.00	102.33	101.96	102.16	101.22
5	11.80	0.00	?UNDEF	?UNDEF	9.80	0.00	100.95	100.12	86.40	0.00	102.27	101.77	102.01	101.19
6	11.80	0.00	?UNDEF	?UNDEF	10.00	0.00	100.92	100.12	105.50	0.00	102.10	101.77	101.81	101.18
7	11.80	0.00	?UNDEF	?UNDEF	9.80	0.00	100.94	100.18	112.10	0.00	102.25	101.80	101.83	101.04
8	15.20	0.00	?UNDEF	?UNDEF	14.00	0.00	100.94	100.31	112.40	0.00	102.43	101.96	102.03	101.06
9	15.50	0.00	?UNDEF	?UNDEF	17.90	0.00	100.99	100.76	112.80	0.00	102.60	102.27	102.18	101.23
10	18.00	0.00	?UNDEF	?UNDEF	18.00	0.00	100.98	100.85	112.70	0.00	102.87	102.41	102.19	101.35
11	19.70	0.00	?UNDEF	?UNDEF	18.00	0.00	101.14	101.11	109.80	0.00	103.33	102.46	102.53	101.68
12	18.30	0.00	?UNDEF	?UNDEF	18.00	0.00	101.33	101.45	104.80	0.00	103.76	102.54	102.71	101.94
13	18.10	0.00	?UNDEF	?UNDEF	18.40	0.00	101.49	102.09	106.70	0.00	104.12	102.74	102.79	102.30
14	17.60	0.00	?UNDEF	?UNDEF	18.10	0.00	101.41	102.09	110.70	0.00	104.19	102.82	102.85	102.59
15	17.60	0.00	?UNDEF	?UNDEF	18.20	0.00	101.50	102.56	114.10	0.00	104.88	102.86	102.92	102.94
16	17.70	0.00	?UNDEF	?UNDEF	18.10	0.00	101.52	102.39	122.10	0.00	104.15	102.80	102.80	103.10
17	18.40	0.00	?UNDEF	?UNDEF	18.00	0.00	101.69	102.17	121.10	0.00	103.54	102.85	102.90	103.30
18	18.40	0.00	?UNDEF	?UNDEF	18.10	0.00	101.81	102.02	120.80	0.00	103.25	102.84	102.75	103.26
19	15.20	0.00	?UNDEF	?UNDEF	18.10	0.00	101.95	101.76	117.70	0.00	103.15	102.97	102.73	103.11
20	15.00	0.00	?UNDEF	?UNDEF	18.10	0.00	101.97	101.54	132.50	0.00	103.15	102.97	102.61	103.02
21	15.00	0.00	?UNDEF	?UNDEF	18.00	0.00	101.81	101.38	99.60	0.00	103.04	103.13	102.64	102.90
22	15.10	0.00	?UNDEF	?UNDEF	18.00	0.00	101.83	101.23	96.80	0.00	103.01	103.08	102.64	102.72
23	15.00	0.00	?UNDEF	?UNDEF	17.70	0.00	101.81	101.10	95.00	0.00	103.01	103.08	102.49	102.58
24	12.10	0.00	?UNDEF	?UNDEF	10.20	0.00	101.64	101.06	78.40	0.00	102.99	102.94	102.48	102.58

02 MAR 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
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	DWORKSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.40	0.00	107.15	?UNDEF	?UNDEF	?UNDEF	11.50	0.00	103.85	103.47	11.90	0.00	?UNDEF	?UNDEF
2	1.40	0.00	107.14	?UNDEF	?UNDEF	?UNDEF	11.50	0.00	103.66	103.47	11.60	0.00	?UNDEF	?UNDEF
3	1.40	0.00	107.15	?UNDEF	?UNDEF	?UNDEF	11.60	0.00	103.66	103.46	11.90	0.00	?UNDEF	?UNDEF
4	1.40	0.00	107.02	?UNDEF	?UNDEF	?UNDEF	15.10	0.00	103.48	103.28	11.60	0.00	?UNDEF	?UNDEF
5	1.40	0.00	106.97	?UNDEF	?UNDEF	?UNDEF	16.30	0.00	103.42	103.14	11.90	0.00	?UNDEF	?UNDEF
6	1.40	0.00	106.86	?UNDEF	?UNDEF	?UNDEF	18.30	0.00	103.34	103.14	11.90	0.00	?UNDEF	?UNDEF
7	1.40	0.00	106.83	?UNDEF	?UNDEF	?UNDEF	18.30	0.00	103.16	103.06	11.70	0.00	?UNDEF	?UNDEF
8	1.40	0.00	107.04	?UNDEF	?UNDEF	?UNDEF	12.10	0.00	103.11	103.19	11.70	0.00	?UNDEF	?UNDEF
9	1.40	0.00	107.23	?UNDEF	?UNDEF	?UNDEF	11.60	0.00	103.19	103.22	11.90	0.00	?UNDEF	?UNDEF
10	1.40	0.00	107.71	?UNDEF	?UNDEF	?UNDEF	11.70	0.00	103.09	103.30	11.60	0.00	?UNDEF	?UNDEF
11	1.40	0.00	107.97	?UNDEF	?UNDEF	?UNDEF	12.10	0.00	103.42	103.55	12.00	0.00	?UNDEF	?UNDEF
12	1.40	0.00	108.36	?UNDEF	?UNDEF	?UNDEF	12.00	0.00	103.66	103.55	11.70	0.00	?UNDEF	?UNDEF
13	1.40	0.00	108.68	?UNDEF	?UNDEF	?UNDEF	12.20	0.00	103.76	103.47	14.80	0.00	?UNDEF	?UNDEF
14	1.40	0.00	108.83	?UNDEF	?UNDEF	?UNDEF	12.00	0.00	103.59	103.49	11.70	0.00	?UNDEF	?UNDEF
15	1.40	0.00	108.96	?UNDEF	?UNDEF	?UNDEF	11.80	0.00	103.58	103.62	11.60	0.00	?UNDEF	?UNDEF
16	1.40	0.00	108.42	?UNDEF	?UNDEF	?UNDEF	11.80	0.00	103.43	103.35	11.60	0.00	?UNDEF	?UNDEF
17	1.40	0.00	107.56	?UNDEF	?UNDEF	?UNDEF	11.80	0.00	103.29	103.28	11.60	0.00	?UNDEF	?UNDEF
18	1.40	0.00	106.87	?UNDEF	?UNDEF	?UNDEF	13.70	0.00	103.08	103.58	11.60	0.00	?UNDEF	?UNDEF
19	1.40	0.00	107.56	?UNDEF	?UNDEF	?UNDEF	11.80	0.00	102.87	103.36	11.90	0.00	?UNDEF	?UNDEF
20	1.40	0.00	106.50	?UNDEF	?UNDEF	?UNDEF	12.00	0.00	102.84	103.02	12.10	0.00	?UNDEF	?UNDEF
21	1.40	0.00	106.33	?UNDEF	?UNDEF	?UNDEF	24.20	0.00	102.79	102.95	24.40	0.00	?UNDEF	?UNDEF
22	1.40	0.00	106.41	?UNDEF	?UNDEF	?UNDEF	32.80	0.00	102.71	102.80	34.60	0.00	?UNDEF	?UNDEF
23	1.40	0.00	106.38	?UNDEF	?UNDEF	?UNDEF	22.30	0.00	102.71	102.63	22.20	0.00	?UNDEF	?UNDEF
24	1.40	0.00	106.53	?UNDEF	?UNDEF	?UNDEF	11.90	0.00	102.65	102.84	12.20	0.00	?UNDEF	?UNDEF
	LOWER MONUMENTAL			ICE HARBOR			MCNARY			PASCO				
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	11.50	0.00	?UNDEF	?UNDEF	9.70	0.00	101.96	101.96	110.60	0.00	103.92	103.34	103.28	102.48
2	11.50	0.00	?UNDEF	?UNDEF	9.70	0.00	101.85	101.68	111.60	0.00	103.72	103.25	103.33	102.39
3	11.50	0.00	?UNDEF	?UNDEF	11.40	0.00	101.85	101.52	100.10	0.00	103.71	103.23	103.45	102.21
4	11.70	0.00	?UNDEF	?UNDEF	9.70	0.00	101.76	101.29	105.30	0.00	103.68	103.03	103.65	102.04
5	11.50	0.00	?UNDEF	?UNDEF	9.70	0.00	101.69	101.25	116.70	0.00	103.60	102.99	103.20	101.97
6	11.50	0.00	?UNDEF	?UNDEF	9.70	0.00	101.63	101.09	128.70	0.00	103.57	102.88	103.02	101.94
7	11.60	0.00	?UNDEF	?UNDEF	9.80	0.00	101.62	101.07	128.80	0.00	103.51	102.88	103.08	101.73
8	11.60	0.00	?UNDEF	?UNDEF	12.20	0.00	101.47	101.15	129.00	0.00	103.44	102.74	102.82	101.74
9	11.60	0.00	?UNDEF	?UNDEF	12.40	0.00	101.39	101.60	122.40	0.00	103.49	102.89	102.88	101.81
10	11.60	0.00	?UNDEF	?UNDEF	12.40	0.00	101.50	101.53	120.90	0.00	103.54	102.92	103.10	101.93
11	12.00	0.00	?UNDEF	?UNDEF	12.50	0.00	101.51	101.75	120.10	0.00	103.65	103.05	103.38	102.22
12	13.10	0.00	?UNDEF	?UNDEF	12.60	0.00	101.47	102.03	119.10	0.00	103.65	103.07	103.35	102.46
13	11.60	0.00	?UNDEF	?UNDEF	12.40	0.00	101.53	102.40	120.20	0.00	103.71	103.22	103.42	102.78
14	11.60	0.00	?UNDEF	?UNDEF	12.40	0.00	101.53	102.45	121.10	0.00	103.74	103.15	103.34	103.19
15	11.60	0.00	?UNDEF	?UNDEF	12.30	0.00	101.50	102.37	119.70	0.00	103.72	103.13	103.21	103.30
16	11.80	0.00	?UNDEF	?UNDEF	12.70	0.00	101.50	102.42	120.60	0.00	103.75	103.40	103.17	103.44
17	11.60	0.00	?UNDEF	?UNDEF	17.90	0.00	101.46	102.22	130.10	0.00	103.71	103.22	103.14	103.39
18	11.60	0.00	?UNDEF	?UNDEF	18.00	0.00	101.45	102.02	131.30	0.00	103.49	103.02	102.94	103.33
19	11.60	0.00	?UNDEF	?UNDEF	24.50	0.00	101.45	101.75	132.20	0.00	103.43	102.94	102.57	103.03
20	13.90	0.00	?UNDEF	?UNDEF	25.10	0.00	101.39	101.59	132.20	0.00	103.21	102.88	102.55	102.75
21	24.70	0.00	?UNDEF	?UNDEF	38.60	0.00	101.32	101.43	125.20	0.00	103.02	102.69	102.47	102.37
22	33.70	0.00	?UNDEF	?UNDEF	38.60	0.00	101.39	101.22	99.60	0.00	102.85	102.61	102.31	102.21
23	21.40	0.00	?UNDEF	?UNDEF	25.30	0.00	101.34	101.05	87.00	0.00	102.66	102.57	102.27	101.88
24	12.10	0.00	?UNDEF	?UNDEF	12.00	0.00	101.27	100.85	86.70	0.00	102.20	102.41	102.32	101.88

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	DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.		
1	1.40	0.00	106.17	?UNDEF	?UNDEF	?UNDEF	.10	0.00	103.13	103.03	.30	0.00	?UNDEF	?UNDEF		
2	1.40	0.00	106.30	?UNDEF	?UNDEF	?UNDEF	1.80	0.00	103.36	103.07	1.80	0.00	?UNDEF	?UNDEF		
3	1.40	0.00	106.30	?UNDEF	?UNDEF	?UNDEF	.10	0.00	103.04	103.23	1.80	0.00	?UNDEF	?UNDEF		
4	1.40	0.00	106.15	?UNDEF	?UNDEF	?UNDEF	2.00	0.00	103.07	102.94	2.20	0.00	?UNDEF	?UNDEF		
5	1.40	0.00	106.14	?UNDEF	?UNDEF	?UNDEF	13.20	0.00	103.10	103.23	14.00	0.00	?UNDEF	?UNDEF		
6	1.40	0.00	106.07	?UNDEF	?UNDEF	?UNDEF	16.30	0.00	103.15	103.33	16.30	0.00	?UNDEF	?UNDEF		
7	1.40	0.00	106.07	?UNDEF	?UNDEF	?UNDEF	18.90	0.00	103.16	103.19	21.30	0.00	?UNDEF	?UNDEF		
8	1.40	0.00	106.37	?UNDEF	?UNDEF	?UNDEF	19.30	0.00	103.11	103.26	12.80	0.00	?UNDEF	?UNDEF		
9	1.40	0.00	106.85	?UNDEF	?UNDEF	?UNDEF	19.60	0.00	103.20	103.51	12.20	0.00	?UNDEF	?UNDEF		
10	1.40	0.00	107.54	?UNDEF	?UNDEF	?UNDEF	19.00	0.00	103.24	103.43	11.80	0.00	?UNDEF	?UNDEF		
11	1.40	0.00	108.11	?UNDEF	?UNDEF	?UNDEF	14.10	0.00	103.35	103.65	12.20	0.00	?UNDEF	?UNDEF		
12	1.40	0.00	108.48	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	103.60	104.03	12.50	0.00	?UNDEF	?UNDEF		
13	1.40	0.00	108.80	?UNDEF	?UNDEF	?UNDEF	13.10	0.00	103.74	104.56	12.40	0.00	?UNDEF	?UNDEF		
14	1.40	0.00	108.94	?UNDEF	?UNDEF	?UNDEF	13.90	0.00	103.85	104.28	12.50	0.00	?UNDEF	?UNDEF		
15	1.40	0.00	108.90	?UNDEF	?UNDEF	?UNDEF	13.30	0.00	103.89	104.23	12.20	0.00	?UNDEF	?UNDEF		
16	1.40	0.00	108.71	?UNDEF	?UNDEF	?UNDEF	11.70	0.00	104.11	104.29	11.80	0.00	?UNDEF	?UNDEF		
17	1.40	0.00	108.35	?UNDEF	?UNDEF	?UNDEF	11.70	0.00	103.99	104.05	11.80	0.00	?UNDEF	?UNDEF		
18	1.40	0.00	107.79	?UNDEF	?UNDEF	?UNDEF	12.00	0.00	104.01	103.92	11.80	0.00	?UNDEF	?UNDEF		
19	1.40	0.00	108.35	?UNDEF	?UNDEF	?UNDEF	11.80	0.00	103.88	103.77	11.90	0.00	?UNDEF	?UNDEF		
20	1.40	0.00	107.15	?UNDEF	?UNDEF	?UNDEF	15.60	0.00	103.71	103.63	15.90	0.00	?UNDEF	?UNDEF		
21	1.40	0.00	107.15	?UNDEF	?UNDEF	?UNDEF	15.80	0.00	103.84	103.65	16.10	0.00	?UNDEF	?UNDEF		
22	1.40	0.00	107.02	?UNDEF	?UNDEF	?UNDEF	16.70	0.00	103.85	103.51	17.60	0.00	?UNDEF	?UNDEF		
23	1.40	0.00	107.02	?UNDEF	?UNDEF	?UNDEF	12.00	0.00	103.85	103.49	12.00	0.00	?UNDEF	?UNDEF		
24	1.40	0.00	107.15	?UNDEF	?UNDEF	?UNDEF	11.50	0.00	103.85	103.51	11.70	0.00	?UNDEF	?UNDEF		
	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT		
1	11.60	0.00	?UNDEF	?UNDEF	9.70	0.00	101.22	100.95	79.00	0.00	102.86	102.66	102.31	102.28		
2	13.30	0.00	?UNDEF	?UNDEF	9.80	0.00	101.13	100.95	75.70	0.00	102.93	102.72	102.40	102.15		
3	11.60	0.00	?UNDEF	?UNDEF	9.90	0.00	101.14	100.67	95.00	0.00	102.95	102.72	102.40	102.00		
4	11.60	0.00	?UNDEF	?UNDEF	12.30	0.00	101.15	100.75	127.90	0.00	102.96	102.77	102.40	101.92		
5	11.60	0.00	?UNDEF	?UNDEF	14.00	0.00	101.17	100.98	156.20	0.00	103.15	102.80	102.57	101.80		
6	11.60	0.00	?UNDEF	?UNDEF	12.60	0.00	101.22	100.91	168.30	0.00	103.16	102.82	102.75	101.66		
7	13.60	0.00	?UNDEF	?UNDEF	13.80	0.00	101.19	100.76	179.60	0.00	103.19	102.87	102.75	101.68		
8	13.20	0.00	?UNDEF	?UNDEF	9.70	0.00	101.27	100.91	156.10	0.00	103.21	102.75	102.79	101.63		
9	11.60	0.00	?UNDEF	?UNDEF	10.90	0.00	101.30	101.05	135.50	0.00	103.28	102.64	103.01	101.85		
10	11.60	0.00	?UNDEF	?UNDEF	11.00	0.00	101.37	101.42	134.80	0.00	103.38	102.74	103.10	102.03		
11	14.30	0.00	?UNDEF	?UNDEF	12.40	0.00	101.54	101.71	121.60	0.00	103.37	102.78	103.28	102.19		
12	13.20	0.00	?UNDEF	?UNDEF	10.80	0.00	101.93	101.95	116.30	0.00	103.88	102.99	103.62	102.57		
13	13.20	0.00	?UNDEF	?UNDEF	11.00	0.00	102.06	102.32	115.30	0.00	103.99	103.14	103.76	102.84		
14	14.70	0.00	?UNDEF	?UNDEF	12.20	0.00	102.30	102.55	114.90	0.00	104.47	103.38	103.72	103.23		
15	12.20	0.00	?UNDEF	?UNDEF	12.40	0.00	102.36	102.66	114.20	0.00	104.80	103.51	103.69	103.49		
16	11.50	0.00	?UNDEF	?UNDEF	10.90	0.00	102.32	102.49	119.30	0.00	104.58	103.47	103.53	103.46		
17	13.00	0.00	?UNDEF	?UNDEF	10.90	0.00	102.09	102.43	140.30	0.00	104.43	103.51	104.18	103.39		
18	13.00	0.00	?UNDEF	?UNDEF	12.60	0.00	102.22	102.70	147.50	0.00	104.29	103.52	103.61	103.45		
19	11.90	0.00	?UNDEF	?UNDEF	11.00	0.00	102.04	102.65	145.80	0.00	104.19	103.41	103.48	103.26		
20	15.70	0.00	?UNDEF	?UNDEF	12.70	0.00	102.01	102.66	137.30	0.00	104.22	103.45	103.54	103.11		
21	16.10	0.00	?UNDEF	?UNDEF	12.70	0.00	102.00	102.38	130.20	0.00	104.21	103.48	103.42	103.02		
22	16.90	0.00	?UNDEF	?UNDEF	12.50	0.00	102.05	102.13	122.30	0.00	103.84	103.47	103.30	102.87		
23	11.80	0.00	?UNDEF	?UNDEF	11.60	0.00	102.07	102.25	118.20	0.00	103.90	103.43	103.25	102.67		
24	11.50	0.00	?UNDEF	?UNDEF	9.70	0.00	102.03	102.12	113.30	0.00	103.98	103.40	103.21	102.67		

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	DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE				
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.		ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT		TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.		TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.40	0.00	105.98	:	?UNDEF	?UNDEF	?UNDEF	:	11.00	0.00	102.47	102.01	:	12.50	0.00	?UNDEF	?UNDEF
2	1.40	0.00	106.02	:	?UNDEF	?UNDEF	?UNDEF	:	1.80	0.00	102.67	101.62	:	4.10	0.00	?UNDEF	?UNDEF
3	1.40	0.00	105.93	:	?UNDEF	?UNDEF	?UNDEF	:	.10	0.00	102.42	101.77	:	.20	0.00	?UNDEF	?UNDEF
4	1.40	0.00	105.93	:	?UNDEF	?UNDEF	?UNDEF	:	2.70	0.00	102.71	101.94	:	1.70	0.00	?UNDEF	?UNDEF
5	1.40	0.00	105.96	:	?UNDEF	?UNDEF	?UNDEF	:	11.40	0.00	102.77	102.53	:	6.50	0.00	?UNDEF	?UNDEF
6	1.40	0.00	105.97	:	?UNDEF	?UNDEF	?UNDEF	:	18.60	0.00	102.79	102.72	:	19.50	0.00	?UNDEF	?UNDEF
7	1.40	0.00	105.99	:	?UNDEF	?UNDEF	?UNDEF	:	36.30	0.00	102.66	102.42	:	39.40	0.00	?UNDEF	?UNDEF
8	1.40	0.00	106.12	:	?UNDEF	?UNDEF	?UNDEF	:	39.00	0.00	102.54	102.33	:	45.00	0.00	?UNDEF	?UNDEF
9	1.40	0.00	106.45	:	?UNDEF	?UNDEF	?UNDEF	:	34.30	0.00	102.59	102.32	:	38.70	0.00	?UNDEF	?UNDEF
10	1.40	0.00	106.77	:	?UNDEF	?UNDEF	?UNDEF	:	26.70	0.00	102.77	102.53	:	28.20	0.00	?UNDEF	?UNDEF
11	1.40	0.00	107.14	:	?UNDEF	?UNDEF	?UNDEF	:	21.20	0.00	102.90	104.44	:	27.40	0.00	?UNDEF	?UNDEF
12	1.40	0.00	107.57	:	?UNDEF	?UNDEF	?UNDEF	:	18.20	0.00	103.12	105.03	:	25.10	0.00	?UNDEF	?UNDEF
13	1.40	0.00	108.20	:	?UNDEF	?UNDEF	?UNDEF	:	17.50	0.00	103.20	105.01	:	20.00	0.00	?UNDEF	?UNDEF
14	1.40	0.00	108.41	:	?UNDEF	?UNDEF	?UNDEF	:	17.80	0.00	102.94	104.43	:	19.90	0.00	?UNDEF	?UNDEF
15	1.40	0.00	108.53	:	?UNDEF	?UNDEF	?UNDEF	:	17.20	0.00	103.49	103.82	:	19.10	0.00	?UNDEF	?UNDEF
16	1.40	0.00	108.42	:	?UNDEF	?UNDEF	?UNDEF	:	20.70	0.00	103.82	103.85	:	17.20	0.00	?UNDEF	?UNDEF
17	1.40	0.00	107.86	:	?UNDEF	?UNDEF	?UNDEF	:	26.60	0.00	103.65	103.85	:	16.30	0.00	?UNDEF	?UNDEF
18	1.40	0.00	107.12	:	?UNDEF	?UNDEF	?UNDEF	:	41.70	0.00	103.31	103.53	:	37.10	0.00	?UNDEF	?UNDEF
19	1.40	0.00	107.86	:	?UNDEF	?UNDEF	?UNDEF	:	35.90	0.00	103.32	103.30	:	38.80	0.00	?UNDEF	?UNDEF
20	1.40	0.00	106.38	:	?UNDEF	?UNDEF	?UNDEF	:	27.20	0.00	103.41	103.33	:	28.50	0.00	?UNDEF	?UNDEF
21	1.40	0.00	106.15	:	?UNDEF	?UNDEF	?UNDEF	:	21.70	0.00	103.19	103.18	:	26.20	0.00	?UNDEF	?UNDEF
22	1.40	0.00	106.16	:	?UNDEF	?UNDEF	?UNDEF	:	13.10	0.00	103.19	103.12	:	25.00	0.00	?UNDEF	?UNDEF
23	1.40	0.00	106.15	:	?UNDEF	?UNDEF	?UNDEF	:	13.30	0.00	103.43	103.11	:	12.80	0.00	?UNDEF	?UNDEF
24	1.40	0.00	106.21	:	?UNDEF	?UNDEF	?UNDEF	:	11.50	0.00	103.13	103.55	:	11.30	0.00	?UNDEF	?UNDEF
	LOWER MONUMENTAL			:	ICE HARBOR			:	MCNARY			:	PASCO				
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.		TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.		TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.		GAS % SAT
1	11.70	0.00	?UNDEF	?UNDEF	:	10.60	0.00	100.45	100.26	:	51.90	0.00	102.08	102.00	101.56	:	101.47
2	11.70	0.00	?UNDEF	?UNDEF	:	9.10	0.00	100.37	100.22	:	51.80	0.00	102.12	102.16	101.58	:	101.52
3	11.70	0.00	?UNDEF	?UNDEF	:	10.70	0.00	100.39	100.00	:	74.10	0.00	101.71	101.95	101.62	:	101.43
4	11.70	0.00	?UNDEF	?UNDEF	:	9.10	0.00	100.30	100.00	:	78.00	0.00	101.50	101.99	101.94	:	101.37
5	11.80	0.00	?UNDEF	?UNDEF	:	9.10	0.00	100.34	100.08	:	112.70	0.00	101.64	102.07	101.80	:	101.24
6	20.20	0.00	?UNDEF	?UNDEF	:	14.50	0.00	100.38	100.31	:	148.00	0.00	101.83	102.19	101.55	:	101.14
7	35.50	0.00	?UNDEF	?UNDEF	:	21.70	0.00	100.39	100.43	:	144.00	0.00	102.09	102.17	101.58	:	101.01
8	41.70	0.00	?UNDEF	?UNDEF	:	27.40	0.00	100.39	100.40	:	173.50	0.00	102.06	102.07	101.98	:	101.03
9	35.10	0.00	?UNDEF	?UNDEF	:	29.00	0.00	100.55	100.86	:	157.80	0.00	102.29	102.08	102.01	:	101.04
10	35.60	0.00	?UNDEF	?UNDEF	:	27.50	0.00	100.70	100.59	:	174.30	0.00	102.54	101.98	102.30	:	101.30
11	35.40	0.00	?UNDEF	?UNDEF	:	29.00	0.00	100.89	100.77	:	173.50	0.00	102.77	101.91	102.20	:	101.67
12	33.80	0.00	?UNDEF	?UNDEF	:	27.50	0.00	101.11	101.10	:	171.60	0.00	102.94	101.95	102.42	:	102.02
13	19.00	0.00	?UNDEF	?UNDEF	:	27.30	0.00	101.24	101.72	:	170.80	0.00	103.50	102.28	102.69	:	102.59
14	20.80	0.00	?UNDEF	?UNDEF	:	18.90	0.00	101.25	101.78	:	171.20	0.00	103.59	102.43	102.76	:	103.03
15	18.70	0.00	?UNDEF	?UNDEF	:	17.90	0.00	101.37	101.90	:	142.70	0.00	103.68	102.67	102.88	:	103.24
16	18.50	0.00	?UNDEF	?UNDEF	:	17.90	0.00	101.47	101.81	:	124.00	0.00	103.80	102.82	102.84	:	103.44
17	18.40	0.00	?UNDEF	?UNDEF	:	18.00	0.00	101.60	101.88	:	118.50	0.00	103.83	102.97	102.89	:	103.48
18	29.20	0.00	?UNDEF	?UNDEF	:	25.80	0.00	101.10	101.71	:	172.10	0.00	103.76	102.93	102.85	:	103.35
19	35.80	0.00	?UNDEF	?UNDEF	:	29.90	0.00	101.19	101.43	:	182.10	0.00	103.75	102.90	102.67	:	103.18
20	31.80	0.00	?UNDEF	?UNDEF	:	34.40	0.00	101.34	101.34	:	173.40	0.00	103.27	102.93	102.85	:	102.95
21	27.00	0.00	?UNDEF	?UNDEF	:	35.50	0.00	101.50	101.17	:	162.60	0.00	103.04	102.83	102.76	:	102.84
22	25.20	0.00	?UNDEF	?UNDEF	:	28.40	0.00	101.51	101.09	:	105.60	0.00	103.02	102.81	102.59	:	102.76
23	12.40	0.00	?UNDEF	?UNDEF	:	15.50	0.00	101.47	100.91	:	78.90	0.00	102.89	102.81	102.58	:	102.53
24	11.60	0.00	?UNDEF	?UNDEF	:	13.60	0.00	101.20	100.79	:	78.70	0.00	103.01	102.81	102.46	:	102.53

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	DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	
1	1.40	0.00	105.49	?UNDEF	?UNDEF	?UNDEF	11.60	0.00	101.64	100.87	24.70	0.00	?UNDEF	?UNDEF	
2	1.40	0.00	105.57	?UNDEF	?UNDEF	?UNDEF	13.00	0.00	101.76	100.88	14.50	0.00	?UNDEF	?UNDEF	
3	1.40	0.00	105.61	?UNDEF	?UNDEF	?UNDEF	11.30	0.00	101.63	101.18	13.80	0.00	?UNDEF	?UNDEF	
4	1.40	0.00	105.59	?UNDEF	?UNDEF	?UNDEF	11.30	0.00	101.64	101.00	12.30	0.00	?UNDEF	?UNDEF	
5	1.40	0.00	105.55	?UNDEF	?UNDEF	?UNDEF	13.40	0.00	101.62	101.65	12.60	0.00	?UNDEF	?UNDEF	
6	1.40	0.00	105.54	?UNDEF	?UNDEF	?UNDEF	19.90	0.00	101.47	101.08	19.60	0.00	?UNDEF	?UNDEF	
7	1.40	0.00	105.48	?UNDEF	?UNDEF	?UNDEF	38.80	0.00	101.55	101.04	38.40	0.00	?UNDEF	?UNDEF	
8	1.40	0.00	105.56	?UNDEF	?UNDEF	?UNDEF	32.00	0.00	101.69	101.04	33.60	0.00	?UNDEF	?UNDEF	
9	1.40	0.00	105.88	?UNDEF	?UNDEF	?UNDEF	31.30	0.00	101.67	101.17	30.70	0.00	?UNDEF	?UNDEF	
10	1.40	0.00	106.22	?UNDEF	?UNDEF	?UNDEF	26.60	0.00	101.71	101.48	33.50	0.00	?UNDEF	?UNDEF	
11	1.40	0.00	106.57	?UNDEF	?UNDEF	?UNDEF	26.30	0.00	101.94	101.68	29.90	0.00	?UNDEF	?UNDEF	
12	1.40	0.00	107.10	?UNDEF	?UNDEF	?UNDEF	19.10	0.00	102.31	102.05	18.50	0.00	?UNDEF	?UNDEF	
13	1.40	0.00	107.75	?UNDEF	?UNDEF	?UNDEF	16.30	0.00	102.36	102.10	16.80	0.00	?UNDEF	?UNDEF	
14	1.40	0.00	107.97	?UNDEF	?UNDEF	?UNDEF	19.60	0.00	102.46	102.33	16.00	0.00	?UNDEF	?UNDEF	
15	1.40	0.00	108.18	?UNDEF	?UNDEF	?UNDEF	18.00	0.00	102.54	102.31	15.80	0.00	?UNDEF	?UNDEF	
16	1.40	0.00	107.97	?UNDEF	?UNDEF	?UNDEF	17.80	0.00	102.74	101.99	16.00	0.00	?UNDEF	?UNDEF	
17	1.40	0.00	107.53	?UNDEF	?UNDEF	?UNDEF	19.70	0.00	102.66	102.03	16.00	0.00	?UNDEF	?UNDEF	
18	1.40	0.00	106.80	?UNDEF	?UNDEF	?UNDEF	19.30	0.00	102.64	102.06	19.80	0.00	?UNDEF	?UNDEF	
19	1.40	0.00	107.53	?UNDEF	?UNDEF	?UNDEF	17.60	0.00	102.80	102.32	21.60	0.00	?UNDEF	?UNDEF	
20	1.40	0.00	106.00	?UNDEF	?UNDEF	?UNDEF	17.60	0.00	102.54	102.11	23.20	0.00	?UNDEF	?UNDEF	
21	1.40	0.00	106.00	?UNDEF	?UNDEF	?UNDEF	17.60	0.00	102.69	102.08	36.60	0.00	?UNDEF	?UNDEF	
22	1.40	0.00	105.95	?UNDEF	?UNDEF	?UNDEF	17.80	0.00	102.56	101.94	38.20	0.00	?UNDEF	?UNDEF	
23	1.40	0.00	105.84	?UNDEF	?UNDEF	?UNDEF	13.70	0.00	102.65	101.77	15.60	0.00	?UNDEF	?UNDEF	
24	1.40	0.00	105.88	?UNDEF	?UNDEF	?UNDEF	11.40	0.00	102.55	102.07	14.10	0.00	?UNDEF	?UNDEF	
	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT	
1	19.40	0.00	?UNDEF	?UNDEF	28.00	0.00	098.85	099.19	63.70	0.00	101.38	101.17	100.49	100.80	
2	12.80	0.00	?UNDEF	?UNDEF	28.00	0.00	098.84	099.16	66.80	0.00	101.54	101.05	100.36	100.65	
3	12.30	0.00	?UNDEF	?UNDEF	29.60	0.00	099.10	099.08	67.90	0.00	101.50	101.06	100.22	100.65	
4	12.00	0.00	?UNDEF	?UNDEF	13.20	0.00	099.24	098.95	76.60	0.00	101.40	100.95	100.08	100.52	
5	12.20	0.00	?UNDEF	?UNDEF	14.80	0.00	099.22	098.77	112.80	0.00	101.21	100.78	100.04	100.38	
6	21.00	0.00	?UNDEF	?UNDEF	19.10	0.00	099.19	098.90	135.70	0.00	101.29	100.77	100.16	100.21	
7	35.30	0.00	?UNDEF	?UNDEF	37.10	0.00	099.02	098.94	159.40	0.00	101.15	100.58	100.14	100.03	
8	41.40	0.00	?UNDEF	?UNDEF	35.10	0.00	099.17	099.17	159.30	0.00	101.30	100.69	100.38	100.05	
9	34.30	0.00	?UNDEF	?UNDEF	32.10	0.00	099.23	099.46	159.20	0.00	101.52	100.69	100.49	100.01	
10	34.10	0.00	?UNDEF	?UNDEF	30.50	0.00	099.54	099.29	159.20	0.00	101.83	100.71	100.82	100.31	
11	34.10	0.00	?UNDEF	?UNDEF	32.30	0.00	099.86	099.53	159.20	0.00	101.91	100.95	100.97	100.48	
12	27.40	0.00	?UNDEF	?UNDEF	22.40	0.00	100.35	099.96	158.90	0.00	101.71	100.99	101.06	100.98	
13	23.10	0.00	?UNDEF	?UNDEF	19.80	0.00	100.47	100.52	158.50	0.00	102.33	101.00	101.14	101.35	
14	15.50	0.00	?UNDEF	?UNDEF	13.20	0.00	100.57	100.60	159.20	0.00	102.96	101.83	101.27	101.60	
15	14.70	0.00	?UNDEF	?UNDEF	12.40	0.00	100.51	100.79	159.20	0.00	102.36	101.65	101.61	101.81	
16	14.80	0.00	?UNDEF	?UNDEF	12.40	0.00	101.24	100.91	160.30	0.00	102.67	101.88	101.68	101.85	
17	14.80	0.00	?UNDEF	?UNDEF	12.50	0.00	101.16	101.12	161.90	0.00	102.39	101.93	101.72	101.93	
18	16.40	0.00	?UNDEF	?UNDEF	12.50	0.00	101.31	100.86	163.20	0.00	102.15	101.96	101.61	101.82	
19	26.40	0.00	?UNDEF	?UNDEF	21.50	0.00	101.58	100.62	171.20	0.00	102.05	102.13	101.65	101.97	
20	26.90	0.00	?UNDEF	?UNDEF	23.30	0.00	101.22	100.52	172.40	0.00	101.84	102.13	101.68	101.98	
21	38.00	0.00	?UNDEF	?UNDEF	27.70	0.00	100.96	100.26	178.40	0.00	101.69	102.00	101.80	101.92	
22	35.80	0.00	?UNDEF	?UNDEF	31.20	0.00	100.76	100.18	176.40	0.00	102.00	102.04	101.85	101.80	
23	15.10	0.00	?UNDEF	?UNDEF	14.00	0.00	100.52	100.21	89.00	0.00	102.01	102.06	101.60	101.68	
24	13.20	0.00	?UNDEF	?UNDEF	9.20	0.00	100.42	100.13	53.40	0.00	102.08	101.93	101.54	101.68	

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WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

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	DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	
1	1.40	0.00	105.75	?UNDEF	?UNDEF	?UNDEF	.50	0.00	101.84	100.97	.20	0.00	?UNDEF	?UNDEF	
2	1.40	0.00	105.76	?UNDEF	?UNDEF	?UNDEF	.10	0.00	101.68	101.03	.20	0.00	?UNDEF	?UNDEF	
3	1.40	0.00	105.71	?UNDEF	?UNDEF	?UNDEF	.10	0.00	101.66	100.89	.20	0.00	?UNDEF	?UNDEF	
4	1.40	0.00	105.64	?UNDEF	?UNDEF	?UNDEF	1.10	0.00	101.18	100.81	3.20	0.00	?UNDEF	?UNDEF	
5	1.40	0.00	105.58	?UNDEF	?UNDEF	?UNDEF	15.20	0.00	100.89	100.91	14.90	0.00	?UNDEF	?UNDEF	
6	1.40	0.00	105.58	?UNDEF	?UNDEF	?UNDEF	15.90	0.00	101.28	101.19	15.90	0.00	?UNDEF	?UNDEF	
7	1.40	0.00	105.52	?UNDEF	?UNDEF	?UNDEF	19.80	0.00	101.16	100.99	21.10	0.00	?UNDEF	?UNDEF	
8	1.40	0.00	105.66	?UNDEF	?UNDEF	?UNDEF	25.30	0.00	101.35	101.26	32.00	0.00	?UNDEF	?UNDEF	
9	1.40	0.00	105.94	?UNDEF	?UNDEF	?UNDEF	25.80	0.00	101.45	101.22	13.60	0.00	?UNDEF	?UNDEF	
10	1.40	0.00	106.23	?UNDEF	?UNDEF	?UNDEF	25.70	0.00	101.59	101.26	12.70	0.00	?UNDEF	?UNDEF	
11	1.40	0.00	106.57	?UNDEF	?UNDEF	?UNDEF	25.70	0.00	101.62	101.43	20.80	0.00	?UNDEF	?UNDEF	
12	1.40	0.00	107.10	?UNDEF	?UNDEF	?UNDEF	25.30	0.00	102.01	101.76	12.70	0.00	?UNDEF	?UNDEF	
13	1.40	0.00	107.71	?UNDEF	?UNDEF	?UNDEF	20.70	0.00	102.04	101.92	15.40	0.00	?UNDEF	?UNDEF	
14	1.40	0.00	108.04	?UNDEF	?UNDEF	?UNDEF	21.60	0.00	102.06	101.98	22.70	0.00	?UNDEF	?UNDEF	
15	1.40	0.00	107.89	?UNDEF	?UNDEF	?UNDEF	34.00	0.00	102.06	106.48	36.10	0.00	?UNDEF	?UNDEF	
16	1.40	0.00	107.74	?UNDEF	?UNDEF	?UNDEF	26.20	0.00	102.06	102.36	42.80	0.00	?UNDEF	?UNDEF	
17	1.40	0.00	107.16	?UNDEF	?UNDEF	?UNDEF	25.50	0.00	101.89	101.76	52.70	0.00	?UNDEF	?UNDEF	
18	1.40	0.00	106.42	?UNDEF	?UNDEF	?UNDEF	27.30	0.00	101.97	101.74	50.10	0.00	?UNDEF	?UNDEF	
19	1.40	0.00	107.16	?UNDEF	?UNDEF	?UNDEF	27.80	0.00	101.89	101.24	50.20	0.00	?UNDEF	?UNDEF	
20	1.40	0.00	105.93	?UNDEF	?UNDEF	?UNDEF	25.80	0.00	101.71	101.24	50.40	0.00	?UNDEF	?UNDEF	
21	1.40	0.00	105.70	?UNDEF	?UNDEF	?UNDEF	25.50	0.00	101.67	101.06	50.70	0.00	?UNDEF	?UNDEF	
22	1.40	0.00	105.66	?UNDEF	?UNDEF	?UNDEF	15.20	0.00	101.72	100.86	50.70	0.00	?UNDEF	?UNDEF	
23	1.40	0.00	105.61	?UNDEF	?UNDEF	?UNDEF	11.40	0.00	101.68	100.95	27.60	0.00	?UNDEF	?UNDEF	
24	1.40	0.00	105.52	?UNDEF	?UNDEF	?UNDEF	11.50	0.00	101.68	100.92	22.30	0.00	?UNDEF	?UNDEF	
	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT	
1	.20	0.00	?UNDEF	?UNDEF	9.20	0.00	099.97	099.25	108.50	0.00	101.52	101.84	101.21	101.10	
2	.20	0.00	?UNDEF	?UNDEF	9.10	0.00	099.82	099.22	106.80	0.00	102.14	101.77	101.07	100.81	
3	.20	0.00	?UNDEF	?UNDEF	9.20	0.00	099.63	099.48	107.30	0.00	101.82	101.75	101.17	100.65	
4	.40	0.00	?UNDEF	?UNDEF	11.20	0.00	099.58	099.42	107.20	0.00	101.91	101.72	101.14	100.60	
5	15.30	0.00	?UNDEF	?UNDEF	19.50	0.00	099.56	099.24	115.60	0.00	102.02	101.77	101.05	100.41	
6	16.00	0.00	?UNDEF	?UNDEF	18.30	0.00	099.48	099.18	146.20	0.00	101.95	101.61	100.99	100.25	
7	20.40	0.00	?UNDEF	?UNDEF	18.10	0.00	099.50	099.37	159.20	0.00	102.20	101.33	100.86	100.21	
8	40.80	0.00	?UNDEF	?UNDEF	20.60	0.00	099.41	099.44	145.60	0.00	101.96	101.38	100.91	100.01	
9	64.90	0.00	?UNDEF	?UNDEF	9.90	0.00	099.40	099.66	143.00	0.00	102.21	101.35	101.00	099.95	
10	46.80	0.00	?UNDEF	?UNDEF	12.60	0.00	099.50	099.61	127.10	0.00	102.05	101.49	101.27	100.13	
11	22.10	0.00	?UNDEF	?UNDEF	9.20	0.00	099.67	099.81	133.80	0.00	102.46	101.34	101.43	100.44	
12	20.90	0.00	?UNDEF	?UNDEF	9.00	0.00	100.12	099.99	134.90	0.00	102.37	101.27	101.48	100.78	
13	.30	0.00	?UNDEF	?UNDEF	10.50	0.00	100.33	100.75	124.60	0.00	102.09	101.38	101.53	101.36	
14	1.10	0.00	?UNDEF	?UNDEF	9.00	0.00	100.25	100.75	126.10	0.00	102.37	101.41	101.71	101.56	
15	20.70	0.00	?UNDEF	?UNDEF	9.30	0.00	100.22	101.01	136.30	0.00	102.82	101.54	101.62	101.50	
16	38.60	0.00	?UNDEF	?UNDEF	21.30	0.00	100.10	101.06	136.70	0.00	102.64	101.56	101.35	101.67	
17	40.50	0.00	?UNDEF	?UNDEF	38.30	0.00	099.87	100.92	136.70	0.00	101.95	101.54	101.30	101.75	
18	40.60	0.00	?UNDEF	?UNDEF	44.30	0.00	099.80	100.53	137.20	0.00	101.69	101.61	101.00	101.61	
19	41.10	0.00	?UNDEF	?UNDEF	42.60	0.00	099.90	099.99	144.20	0.00	101.81	101.47	101.01	101.58	
20	41.90	0.00	?UNDEF	?UNDEF	42.90	0.00	099.87	099.65	144.50	0.00	101.22	101.20	100.87	101.49	
21	40.30	0.00	?UNDEF	?UNDEF	50.10	0.00	099.93	099.39	140.50	0.00	101.14	101.13	100.79	101.37	
22	39.60	0.00	?UNDEF	?UNDEF	49.00	0.00	099.71	099.31	139.60	0.00	101.12	101.22	100.74	101.31	
23	24.60	0.00	?UNDEF	?UNDEF	34.90	0.00	099.43	099.12	138.50	0.00	101.63	101.31	100.83	101.14	
24	19.70	0.00	?UNDEF	?UNDEF	28.50	0.00	099.17	099.10	113.30	0.00	101.57	101.09	100.66	101.14	

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WALLA WALLA DISTRICT HYDRO PROJECTS
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	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR :	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1 :	1.40	0.00	106.85	?UNDEF	?UNDEF	?UNDEF	.10	0.00	103.19	102.72	.20	0.00	?UNDEF	?UNDEF
2 :	1.40	0.00	106.79	?UNDEF	?UNDEF	?UNDEF	.50	0.00	103.16	102.56	.20	0.00	?UNDEF	?UNDEF
3 :	1.40	0.00	106.76	?UNDEF	?UNDEF	?UNDEF	12.50	0.00	103.18	102.65	.20	0.00	?UNDEF	?UNDEF
4 :	1.40	0.00	106.70	?UNDEF	?UNDEF	?UNDEF	19.30	0.00	103.04	102.84	.20	0.00	?UNDEF	?UNDEF
5 :	1.40	0.00	106.66	?UNDEF	?UNDEF	?UNDEF	19.40	0.00	102.96	102.61	12.50	0.00	?UNDEF	?UNDEF
6 :	1.40	0.00	106.57	?UNDEF	?UNDEF	?UNDEF	19.50	0.00	102.90	102.53	19.20	0.00	?UNDEF	?UNDEF
7 :	1.40	0.00	106.63	?UNDEF	?UNDEF	?UNDEF	21.60	0.00	102.79	102.28	18.50	0.00	?UNDEF	?UNDEF
8 :	1.40	0.00	106.85	?UNDEF	?UNDEF	?UNDEF	21.70	0.00	102.65	102.31	18.40	0.00	?UNDEF	?UNDEF
9 :	1.40	0.00	107.17	?UNDEF	?UNDEF	?UNDEF	25.20	0.00	102.69	102.34	18.50	0.00	?UNDEF	?UNDEF
10 :	1.40	0.00	107.46	?UNDEF	?UNDEF	?UNDEF	25.70	0.00	102.61	102.28	21.40	0.00	?UNDEF	?UNDEF
11 :	1.40	0.00	107.53	?UNDEF	?UNDEF	?UNDEF	25.70	0.00	102.47	102.14	21.60	0.00	?UNDEF	?UNDEF
12 :	1.40	0.00	107.79	?UNDEF	?UNDEF	?UNDEF	25.60	0.00	102.43	102.22	21.70	0.00	?UNDEF	?UNDEF
13 :	1.40	0.00	107.72	?UNDEF	?UNDEF	?UNDEF	26.20	0.00	102.62	102.25	21.90	0.00	?UNDEF	?UNDEF
14 :	1.40	0.00	107.81	?UNDEF	?UNDEF	?UNDEF	25.70	0.00	102.53	102.31	21.60	0.00	?UNDEF	?UNDEF
15 :	1.40	0.00	107.90	?UNDEF	?UNDEF	?UNDEF	25.80	0.00	102.48	102.14	21.60	0.00	?UNDEF	?UNDEF
16 :	1.40	0.00	107.81	?UNDEF	?UNDEF	?UNDEF	28.90	0.00	102.44	101.80	24.80	0.00	?UNDEF	?UNDEF
17 :	1.40	0.00	107.35	?UNDEF	?UNDEF	?UNDEF	26.10	0.00	102.38	101.73	26.20	0.00	?UNDEF	?UNDEF
18 :	1.40	0.00	106.70	?UNDEF	?UNDEF	?UNDEF	28.20	0.00	102.26	101.62	29.20	0.00	?UNDEF	?UNDEF
19 :	1.40	0.00	107.35	?UNDEF	?UNDEF	?UNDEF	27.40	0.00	102.18	101.54	30.00	0.00	?UNDEF	?UNDEF
20 :	1.40	0.00	105.94	?UNDEF	?UNDEF	?UNDEF	15.80	0.00	102.11	101.49	32.20	0.00	?UNDEF	?UNDEF
21 :	1.40	0.00	105.86	?UNDEF	?UNDEF	?UNDEF	13.40	0.00	102.00	102.21	29.10	0.00	?UNDEF	?UNDEF
22 :	1.40	0.00	105.77	?UNDEF	?UNDEF	?UNDEF	13.70	0.00	101.92	101.75	31.20	0.00	?UNDEF	?UNDEF
23 :	1.40	0.00	105.72	?UNDEF	?UNDEF	?UNDEF	13.40	0.00	101.76	101.29	31.00	0.00	?UNDEF	?UNDEF
24 :	1.40	0.00	105.64	?UNDEF	?UNDEF	?UNDEF	13.20	0.00	101.72	101.23	12.90	0.00	?UNDEF	?UNDEF
	LOWER MONUMENTAL			ICE HARBOR			MCNARY			PASCO				
HOUR :	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1 :	.20	0.00	?UNDEF	?UNDEF	9.00	0.00	101.17	100.88	62.20	0.00	103.10	103.31	102.46	102.45
2 :	.20	0.00	?UNDEF	?UNDEF	9.00	0.00	101.14	100.96	63.60	0.00	103.02	102.99	102.39	102.26
3 :	.20	0.00	?UNDEF	?UNDEF	9.00	0.00	101.08	100.76	65.00	0.00	102.73	102.95	102.61	102.11
4 :	.20	0.00	?UNDEF	?UNDEF	9.10	0.00	101.00	100.67	65.30	0.00	102.97	102.65	102.56	101.89
5 :	11.70	0.00	?UNDEF	?UNDEF	12.10	0.00	100.90	100.72	78.50	0.00	103.10	102.39	102.28	101.66
6 :	12.20	0.00	?UNDEF	?UNDEF	12.60	0.00	100.65	100.50	91.30	0.00	103.12	102.12	102.17	101.41
7 :	17.50	0.00	?UNDEF	?UNDEF	13.90	0.00	100.56	100.35	91.80	0.00	103.01	102.02	102.05	101.14
8 :	17.90	0.00	?UNDEF	?UNDEF	12.50	0.00	100.38	100.31	94.60	0.00	103.03	102.16	102.18	101.02
9 :	17.90	0.00	?UNDEF	?UNDEF	17.80	0.00	100.28	100.59	95.00	0.00	103.20	102.04	102.22	100.90
10 :	17.90	0.00	?UNDEF	?UNDEF	17.90	0.00	100.32	100.47	94.70	0.00	103.05	102.18	102.27	100.83
11 :	21.40	0.00	?UNDEF	?UNDEF	21.00	0.00	100.36	100.63	95.40	0.00	103.25	102.27	102.44	100.92
12 :	21.30	0.00	?UNDEF	?UNDEF	21.80	0.00	100.34	101.01	109.50	0.00	103.60	102.34	102.54	101.13
13 :	22.70	0.00	?UNDEF	?UNDEF	21.90	0.00	100.49	101.49	115.20	0.00	103.59	102.34	102.66	101.56
14 :	21.60	0.00	?UNDEF	?UNDEF	24.60	0.00	100.47	101.40	114.70	0.00	103.85	102.34	102.66	101.91
15 :	24.70	0.00	?UNDEF	?UNDEF	24.80	0.00	100.54	101.23	115.10	0.00	103.90	102.41	102.63	102.28
16 :	25.00	0.00	?UNDEF	?UNDEF	24.70	0.00	101.32	100.83	115.30	0.00	103.52	102.50	102.45	102.21
17 :	27.30	0.00	?UNDEF	?UNDEF	25.30	0.00	101.64	100.56	102.60	0.00	103.07	102.44	102.28	102.16
18 :	34.20	0.00	?UNDEF	?UNDEF	34.80	0.00	101.94	100.34	101.50	0.00	102.96	102.21	101.92	102.11
19 :	34.20	0.00	?UNDEF	?UNDEF	35.40	0.00	101.48	100.04	103.10	0.00	102.24	102.17	101.74	102.02
20 :	26.30	0.00	?UNDEF	?UNDEF	36.20	0.00	100.89	99.84	130.50	0.00	102.30	102.09	101.62	101.94
21 :	25.80	0.00	?UNDEF	?UNDEF	34.90	0.00	100.45	99.61	137.00	0.00	103.02	102.00	101.55	101.88
22 :	25.60	0.00	?UNDEF	?UNDEF	27.70	0.00	100.35	99.65	136.70	0.00	102.91	101.96	101.64	101.65
23 :	25.30	0.00	?UNDEF	?UNDEF	24.70	0.00	100.17	99.57	136.90	0.00	102.27	101.91	101.60	101.45
24 :	13.40	0.00	?UNDEF	?UNDEF	13.10	0.00	100.16	99.45	135.90	0.00	102.07	101.87	101.42	101.45

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	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.
1	1.40	0.00	107.06	?UNDEF	?UNDEF	?UNDEF	11.50	0.00	103.34	103.01	12.50	0.00	?UNDEF	?UNDEF
2	1.40	0.00	107.07	?UNDEF	?UNDEF	?UNDEF	.30	0.00	103.32	102.87	6.90	0.00	?UNDEF	?UNDEF
3	1.40	0.00	107.09	?UNDEF	?UNDEF	?UNDEF	.20	0.00	103.24	102.87	1.70	0.00	?UNDEF	?UNDEF
4	1.40	0.00	107.12	?UNDEF	?UNDEF	?UNDEF	.20	0.00	103.26	103.00	1.70	0.00	?UNDEF	?UNDEF
5	1.40	0.00	106.94	?UNDEF	?UNDEF	?UNDEF	.70	0.00	103.24	102.91	.20	0.00	?UNDEF	?UNDEF
6	1.40	0.00	106.95	?UNDEF	?UNDEF	?UNDEF	11.70	0.00	103.23	103.03	3.20	0.00	?UNDEF	?UNDEF
7	1.40	0.00	107.03	?UNDEF	?UNDEF	?UNDEF	25.30	0.00	103.17	103.08	18.60	0.00	?UNDEF	?UNDEF
8	1.40	0.00	107.17	?UNDEF	?UNDEF	?UNDEF	26.20	0.00	103.16	102.93	22.10	0.00	?UNDEF	?UNDEF
9	1.40	0.00	107.58	?UNDEF	?UNDEF	?UNDEF	36.40	0.00	103.28	102.93	21.60	0.00	?UNDEF	?UNDEF
10	1.40	0.00	107.99	?UNDEF	?UNDEF	?UNDEF	37.60	0.00	103.43	103.04	21.70	0.00	?UNDEF	?UNDEF
11	1.40	0.00	108.27	?UNDEF	?UNDEF	?UNDEF	36.80	0.00	103.54	*****	21.60	0.00	?UNDEF	?UNDEF
12	1.40	0.00	108.56	?UNDEF	?UNDEF	?UNDEF	36.60	0.00	103.59	103.38	21.50	0.00	?UNDEF	?UNDEF
13	1.40	0.00	109.15	?UNDEF	?UNDEF	?UNDEF	27.70	0.00	103.80	103.72	19.20	0.00	?UNDEF	?UNDEF
14	1.40	0.00	109.06	?UNDEF	?UNDEF	?UNDEF	27.60	0.00	103.83	103.42	14.60	0.00	?UNDEF	?UNDEF
15	1.40	0.00	108.80	?UNDEF	?UNDEF	?UNDEF	26.80	0.00	103.83	103.58	14.30	0.00	?UNDEF	?UNDEF
16	1.40	0.00	108.70	?UNDEF	?UNDEF	?UNDEF	22.80	0.00	103.84	103.35	14.20	0.00	?UNDEF	?UNDEF
17	1.40	0.00	108.27	?UNDEF	?UNDEF	?UNDEF	22.60	0.00	103.83	103.33	13.90	0.00	?UNDEF	?UNDEF
18	1.40	0.00	107.65	?UNDEF	?UNDEF	?UNDEF	22.70	0.00	103.76	103.14	14.10	0.00	?UNDEF	?UNDEF
19	1.40	0.00	108.27	?UNDEF	?UNDEF	?UNDEF	23.10	0.00	103.74	103.09	14.20	0.00	?UNDEF	?UNDEF
20	1.40	0.00	107.15	?UNDEF	?UNDEF	?UNDEF	22.30	0.00	103.54	103.05	14.20	0.00	?UNDEF	?UNDEF
21	1.40	0.00	107.05	?UNDEF	?UNDEF	?UNDEF	12.90	0.00	103.49	103.29	12.90	0.00	?UNDEF	?UNDEF
22	1.40	0.00	107.02	?UNDEF	?UNDEF	?UNDEF	12.40	0.00	103.51	103.13	12.50	0.00	?UNDEF	?UNDEF
23	1.40	0.00	106.96	?UNDEF	?UNDEF	?UNDEF	12.40	0.00	103.48	102.96	.60	0.00	?UNDEF	?UNDEF
24	1.40	0.00	106.90	?UNDEF	?UNDEF	?UNDEF	.40	0.00	103.40	102.67	.20	0.00	?UNDEF	?UNDEF
	LOWER MONUMENTAL			ICE HARBOR			MCNARY			PASCO				
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT		
1	11.00	0.00	?UNDEF	?UNDEF	11.00	0.00	101.63	101.60	108.30	0.00	103.47	103.25	102.81	102.99
2	.20	0.00	?UNDEF	?UNDEF	9.10	0.00	101.51	102.66	105.40	0.00	103.49	103.29	102.81	102.82
3	.20	0.00	?UNDEF	?UNDEF	9.00	0.00	101.52	102.95	95.20	0.00	103.26	103.32	102.85	102.74
4	.20	0.00	?UNDEF	?UNDEF	10.60	0.00	101.53	102.80	97.80	0.00	103.25	103.32	102.85	102.61
5	.20	0.00	?UNDEF	?UNDEF	9.00	0.00	101.49	102.38	111.00	0.00	103.11	103.16	102.82	102.59
6	10.70	0.00	?UNDEF	?UNDEF	10.50	0.00	101.37	101.88	118.60	0.00	103.18	103.15	102.69	102.42
7	22.30	0.00	?UNDEF	?UNDEF	11.20	0.00	101.31	101.56	162.10	0.00	103.07	103.13	102.80	102.24
8	22.60	0.00	?UNDEF	?UNDEF	11.20	0.00	101.29	101.54	181.90	0.00	103.18	102.99	102.98	102.20
9	24.50	0.00	?UNDEF	?UNDEF	11.00	0.00	101.44	101.90	181.70	0.00	103.40	102.97	103.02	102.26
10	23.00	0.00	?UNDEF	?UNDEF	10.90	0.00	101.57	101.87	158.50	0.00	103.56	102.95	103.15	102.26
11	24.90	0.00	?UNDEF	?UNDEF	10.70	0.00	101.59	102.39	145.80	0.00	103.84	103.15	103.30	102.52
12	22.90	0.00	?UNDEF	?UNDEF	10.90	0.00	101.84	102.58	144.50	0.00	104.15	103.33	103.35	102.82
13	22.80	0.00	?UNDEF	?UNDEF	14.30	0.00	101.92	103.03	143.00	0.00	104.74	103.39	103.71	103.23
14	14.30	0.00	?UNDEF	?UNDEF	12.80	0.00	101.92	102.91	116.20	0.00	104.78	103.52	103.74	103.69
15	13.50	0.00	?UNDEF	?UNDEF	12.80	0.00	101.83	102.91	115.00	0.00	104.67	103.70	103.64	103.70
16	13.80	0.00	?UNDEF	?UNDEF	14.30	0.00	101.84	102.73	115.30	0.00	104.80	103.60	103.80	103.74
17	13.70	0.00	?UNDEF	?UNDEF	14.30	0.00	101.83	102.62	115.80	0.00	104.83	103.58	103.53	103.76
18	14.00	0.00	?UNDEF	?UNDEF	12.70	0.00	101.79	102.26	123.80	0.00	104.77	103.52	103.21	103.67
19	13.60	0.00	?UNDEF	?UNDEF	12.40	0.00	101.63	102.26	125.00	0.00	104.48	103.35	103.02	103.69
20	13.50	0.00	?UNDEF	?UNDEF	12.40	0.00	101.59	102.19	124.60	0.00	104.02	103.45	103.01	103.44
21	13.50	0.00	?UNDEF	?UNDEF	13.90	0.00	101.37	101.99	101.80	0.00	104.01	103.40	102.82	103.14
22	13.60	0.00	?UNDEF	?UNDEF	13.80	0.00	101.36	101.54	99.90	0.00	103.83	103.34	102.78	103.07
23	13.70	0.00	?UNDEF	?UNDEF	12.30	0.00	101.25	101.24	106.80	0.00	103.75	103.27	102.73	102.91
24	.20	0.00	?UNDEF	?UNDEF	9.50	0.00	101.25	101.04	106.20	0.00	103.68	103.23	102.66	102.91

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	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.
1	1.40	0.00	107.11	?UNDEF	?UNDEF	?UNDEF	11.90	0.00	103.12	103.03	12.00	0.00	?UNDEF	?UNDEF
2	1.40	0.00	107.14	?UNDEF	?UNDEF	?UNDEF	.10	0.00	103.12	103.02	.20	0.00	?UNDEF	?UNDEF
3	1.40	0.00	107.13	?UNDEF	?UNDEF	?UNDEF	.10	0.00	103.04	102.67	.20	0.00	?UNDEF	?UNDEF
4	1.40	0.00	107.14	?UNDEF	?UNDEF	?UNDEF	1.40	0.00	102.97	102.91	1.70	0.00	?UNDEF	?UNDEF
5	1.40	0.00	107.01	?UNDEF	?UNDEF	?UNDEF	11.60	0.00	102.99	103.03	.20	0.00	?UNDEF	?UNDEF
6	1.40	0.00	107.01	?UNDEF	?UNDEF	?UNDEF	21.10	0.00	102.97	103.30	23.00	0.00	?UNDEF	?UNDEF
7	1.40	0.00	107.02	?UNDEF	?UNDEF	?UNDEF	23.00	0.00	102.95	103.00	24.40	0.00	?UNDEF	?UNDEF
8	1.40	0.00	107.29	?UNDEF	?UNDEF	?UNDEF	22.50	0.00	102.97	102.76	16.00	0.00	?UNDEF	?UNDEF
9	1.40	0.00	107.61	?UNDEF	?UNDEF	?UNDEF	23.00	0.00	103.01	102.80	17.60	0.00	?UNDEF	?UNDEF
10	1.40	0.00	108.11	?UNDEF	?UNDEF	?UNDEF	23.00	0.00	103.00	102.77	17.80	0.00	?UNDEF	?UNDEF
11	1.40	0.00	108.43	?UNDEF	?UNDEF	?UNDEF	23.30	0.00	102.99	102.61	17.80	0.00	?UNDEF	?UNDEF
12	1.40	0.00	108.73	?UNDEF	?UNDEF	?UNDEF	22.70	0.00	103.06	102.67	17.80	0.00	?UNDEF	?UNDEF
13	1.40	0.00	108.75	?UNDEF	?UNDEF	?UNDEF	22.80	0.00	103.08	102.70	18.20	0.00	?UNDEF	?UNDEF
14	1.40	0.00	108.46	?UNDEF	?UNDEF	?UNDEF	23.30	0.00	103.13	102.78	17.80	0.00	?UNDEF	?UNDEF
15	1.40	0.00	108.52	?UNDEF	?UNDEF	?UNDEF	23.10	0.00	103.14	102.82	17.90	0.00	?UNDEF	?UNDEF
16	1.40	0.00	108.29	?UNDEF	?UNDEF	?UNDEF	23.10	0.00	103.21	102.85	21.10	0.00	?UNDEF	?UNDEF
17	1.40	0.00	107.88	?UNDEF	?UNDEF	?UNDEF	22.70	0.00	103.21	102.70	21.90	0.00	?UNDEF	?UNDEF
18	1.40	0.00	107.40	?UNDEF	?UNDEF	?UNDEF	22.80	0.00	103.22	102.73	51.30	0.00	?UNDEF	?UNDEF
19	1.40	0.00	107.88	?UNDEF	?UNDEF	?UNDEF	22.80	0.00	103.25	102.75	53.10	0.00	?UNDEF	?UNDEF
20	1.40	0.00	106.97	?UNDEF	?UNDEF	?UNDEF	22.50	0.00	103.25	102.80	41.10	0.00	?UNDEF	?UNDEF
21	1.40	0.00	106.96	?UNDEF	?UNDEF	?UNDEF	18.50	0.00	103.25	102.93	24.20	0.00	?UNDEF	?UNDEF
22	1.40	0.00	107.02	?UNDEF	?UNDEF	?UNDEF	19.50	0.00	103.28	102.92	18.90	0.00	?UNDEF	?UNDEF
23	1.40	0.00	107.02	?UNDEF	?UNDEF	?UNDEF	19.30	0.00	103.28	102.69	18.40	0.00	?UNDEF	?UNDEF
24	1.40	0.00	107.00	?UNDEF	?UNDEF	?UNDEF	11.60	0.00	103.31	102.99	12.50	0.00	?UNDEF	?UNDEF
	LOWER MONUMENTAL			ICE HARBOR			MCNARY			PASCO				
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT
1	13.80	0.00	?UNDEF	?UNDEF	12.70	0.00	101.04	100.74	138.00	0.00	102.91	102.13	101.98	102.19
2	.40	0.00	?UNDEF	?UNDEF	9.30	0.00	101.01	100.59	114.30	0.00	102.91	102.17	101.99	102.07
3	.20	0.00	?UNDEF	?UNDEF	9.20	0.00	101.01	100.46	97.60	0.00	102.91	102.18	101.89	102.09
4	.20	0.00	?UNDEF	?UNDEF	9.30	0.00	100.89	100.49	104.90	0.00	102.93	102.21	101.87	101.97
5	1.90	0.00	?UNDEF	?UNDEF	9.30	0.00	100.88	100.47	126.90	0.00	102.93	102.19	101.83	101.81
6	21.50	0.00	?UNDEF	?UNDEF	10.90	0.00	100.90	100.62	178.70	0.00	102.95	102.21	101.99	101.86
7	22.60	0.00	?UNDEF	?UNDEF	11.00	0.00	100.96	100.78	176.00	0.00	102.97	102.35	102.18	101.72
8	14.60	0.00	?UNDEF	?UNDEF	11.20	0.00	100.80	100.80	160.70	0.00	102.81	102.37	102.19	101.77
9	14.20	0.00	?UNDEF	?UNDEF	12.30	0.00	100.84	100.98	160.90	0.00	103.11	102.39	102.19	101.78
10	13.90	0.00	?UNDEF	?UNDEF	13.70	0.00	100.98	101.19	150.70	0.00	103.26	102.50	102.46	101.80
11	15.30	0.00	?UNDEF	?UNDEF	12.10	0.00	100.97	101.31	150.90	0.00	103.54	102.67	102.63	102.00
12	13.80	0.00	?UNDEF	?UNDEF	12.00	0.00	101.17	101.49	151.70	0.00	103.74	102.75	102.72	102.33
13	15.20	0.00	?UNDEF	?UNDEF	12.00	0.00	101.26	102.13	151.60	0.00	104.03	102.88	102.94	102.49
14	14.00	0.00	?UNDEF	?UNDEF	13.40	0.00	101.48	103.38	151.40	0.00	103.91	103.09	103.17	102.83
15	14.10	0.00	?UNDEF	?UNDEF	11.90	0.00	101.37	103.40	150.50	0.00	103.95	103.13	103.15	102.87
16	23.60	0.00	?UNDEF	?UNDEF	21.30	0.00	101.41	103.79	165.60	0.00	104.02	103.19	103.11	103.03
17	24.90	0.00	?UNDEF	?UNDEF	24.80	0.00	101.44	103.52	159.60	0.00	104.06	103.21	103.00	103.34
18	47.00	0.00	?UNDEF	?UNDEF	41.30	0.00	101.56	102.95	168.10	0.00	104.06	103.19	102.86	103.35
19	51.70	0.00	?UNDEF	?UNDEF	53.90	0.00	101.75	103.66	155.40	0.00	104.02	103.29	102.86	103.37
20	51.70	0.00	?UNDEF	?UNDEF	45.20	0.00	101.75	103.56	150.00	0.00	104.06	103.32	102.86	103.41
21	41.50	0.00	?UNDEF	?UNDEF	44.20	0.00	101.59	102.12	144.60	0.00	103.90	103.40	102.84	103.25
22	24.80	0.00	?UNDEF	?UNDEF	41.00	0.00	101.63	101.59	142.60	0.00	103.75	103.31	102.86	103.11
23	19.60	0.00	?UNDEF	?UNDEF	24.80	0.00	101.64	101.60	123.30	0.00	103.62	103.44	102.84	103.11
24	13.30	0.00	?UNDEF	?UNDEF	11.40	0.00	101.61	101.46	111.40	0.00	103.49	103.29	102.82	103.11

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WALLA WALLA DISTRICT HYDRO PROJECTS
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	DWRSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.40	0.00	106.48	?UNDEF	?UNDEF	?UNDEF	11.40	0.00	102.40	101.85	11.50	0.00	?UNDEF	?UNDEF
2	1.40	0.00	106.47	?UNDEF	?UNDEF	?UNDEF	13.10	0.00	102.47	102.52	11.80	0.00	?UNDEF	?UNDEF
3	1.40	0.00	106.50	?UNDEF	?UNDEF	?UNDEF	10.30	0.00	102.48	102.14	11.50	0.00	?UNDEF	?UNDEF
4	1.40	0.00	106.57	?UNDEF	?UNDEF	?UNDEF	.20	0.00	102.54	102.04	11.60	0.00	?UNDEF	?UNDEF
5	1.40	0.00	106.43	?UNDEF	?UNDEF	?UNDEF	.60	0.00	102.53	102.06	13.20	0.00	?UNDEF	?UNDEF
6	1.40	0.00	106.48	?UNDEF	?UNDEF	?UNDEF	11.70	0.00	102.54	102.21	13.30	0.00	?UNDEF	?UNDEF
7	1.40	0.00	106.48	?UNDEF	?UNDEF	?UNDEF	20.40	0.00	102.60	102.52	20.20	0.00	?UNDEF	?UNDEF
8	1.40	0.00	106.63	?UNDEF	?UNDEF	?UNDEF	21.10	0.00	102.64	102.27	17.70	0.00	?UNDEF	?UNDEF
9	1.40	0.00	106.91	?UNDEF	?UNDEF	?UNDEF	20.90	0.00	102.65	102.45	17.60	0.00	?UNDEF	?UNDEF
10	1.40	0.00	107.38	?UNDEF	?UNDEF	?UNDEF	14.20	0.00	102.73	102.51	16.00	0.00	?UNDEF	?UNDEF
11	1.40	0.00	107.75	?UNDEF	?UNDEF	?UNDEF	15.80	0.00	102.82	103.13	16.10	0.00	?UNDEF	?UNDEF
12	1.40	0.00	108.12	?UNDEF	?UNDEF	?UNDEF	15.60	0.00	102.75	103.84	14.30	0.00	?UNDEF	?UNDEF
13	1.40	0.00	108.42	?UNDEF	?UNDEF	?UNDEF	17.20	0.00	102.96	103.17	17.20	0.00	?UNDEF	?UNDEF
14	1.50	.10	108.67	?UNDEF	?UNDEF	?UNDEF	20.80	0.00	103.08	102.95	17.60	0.00	?UNDEF	?UNDEF
15	1.40	0.00	108.63	?UNDEF	?UNDEF	?UNDEF	21.10	0.00	103.23	103.02	17.60	0.00	?UNDEF	?UNDEF
16	1.40	0.00	108.38	?UNDEF	?UNDEF	?UNDEF	21.10	0.00	103.30	102.94	17.60	0.00	?UNDEF	?UNDEF
17	1.40	0.00	108.00	?UNDEF	?UNDEF	?UNDEF	21.60	0.00	103.33	102.84	20.50	0.00	?UNDEF	?UNDEF
18	1.40	0.00	107.61	?UNDEF	?UNDEF	?UNDEF	27.10	0.00	103.30	102.96	41.20	0.00	?UNDEF	?UNDEF
19	1.40	0.00	108.00	?UNDEF	?UNDEF	?UNDEF	27.70	0.00	103.27	102.64	50.50	0.00	?UNDEF	?UNDEF
20	1.40	0.00	107.13	?UNDEF	?UNDEF	?UNDEF	27.20	0.00	103.24	102.53	49.30	0.00	?UNDEF	?UNDEF
21	1.40	0.00	107.08	?UNDEF	?UNDEF	?UNDEF	22.20	0.00	103.23	103.31	49.00	0.00	?UNDEF	?UNDEF
22	1.40	0.00	107.06	?UNDEF	?UNDEF	?UNDEF	16.80	0.00	103.22	102.72	48.00	0.00	?UNDEF	?UNDEF
23	1.40	0.00	107.06	?UNDEF	?UNDEF	?UNDEF	11.60	0.00	103.11	102.65	31.90	0.00	?UNDEF	?UNDEF
24	1.40	0.00	107.11	?UNDEF	?UNDEF	?UNDEF	11.40	0.00	103.11	102.64	13.10	0.00	?UNDEF	?UNDEF
	LOWER MONUMENTAL			ICE HARBOR			MCNARY			PASCO				
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	11.40	0.00	?UNDEF	?UNDEF	10.90	0.00	100.30	100.14	91.60	0.00	101.90	101.45	101.26	101.74
2	11.60	0.00	?UNDEF	?UNDEF	9.30	0.00	100.32	100.04	90.70	0.00	102.25	101.37	101.34	101.76
3	12.90	0.00	?UNDEF	?UNDEF	9.10	0.00	100.33	100.05	90.70	0.00	101.73	101.39	101.50	101.65
4	11.50	0.00	?UNDEF	?UNDEF	9.10	0.00	100.37	100.10	90.70	0.00	101.68	101.46	101.65	101.68
5	11.60	0.00	?UNDEF	?UNDEF	9.10	0.00	100.38	100.21	94.50	0.00	101.79	101.42	101.68	101.65
6	11.70	0.00	?UNDEF	?UNDEF	10.60	0.00	100.37	100.38	104.50	0.00	101.96	101.51	101.71	101.63
7	16.60	0.00	?UNDEF	?UNDEF	11.70	0.00	100.41	100.54	114.00	0.00	101.95	101.50	101.46	101.61
8	19.90	0.00	?UNDEF	?UNDEF	20.10	0.00	100.42	100.54	133.30	0.00	101.92	101.49	101.43	101.60
9	19.40	0.00	?UNDEF	?UNDEF	20.40	0.00	100.45	100.58	132.90	0.00	102.03	101.58	101.62	101.57
10	14.20	0.00	?UNDEF	?UNDEF	19.80	0.00	100.56	100.84	95.70	0.00	102.27	101.70	101.78	101.69
11	14.20	0.00	?UNDEF	?UNDEF	19.40	0.00	100.71	100.88	97.00	0.00	102.37	101.79	101.96	101.74
12	14.20	0.00	?UNDEF	?UNDEF	17.80	0.00	100.74	100.87	94.30	0.00	102.41	101.99	102.03	101.96
13	17.30	0.00	?UNDEF	?UNDEF	18.00	0.00	100.83	101.62	97.50	0.00	102.72	102.15	102.11	102.15
14	21.90	0.00	?UNDEF	?UNDEF	24.40	0.00	100.92	106.96	113.90	0.00	103.11	102.39	102.20	102.36
15	22.10	0.00	?UNDEF	?UNDEF	21.00	0.00	100.94	106.34	133.70	0.00	103.12	102.40	102.33	102.70
16	20.50	0.00	?UNDEF	?UNDEF	19.80	0.00	100.98	106.37	135.10	0.00	102.99	102.42	102.39	102.80
17	20.70	0.00	?UNDEF	?UNDEF	20.30	0.00	101.01	108.60	144.40	0.00	102.87	102.43	102.20	102.84
18	46.60	0.00	?UNDEF	?UNDEF	36.90	0.00	101.04	104.90	167.60	0.00	102.75	102.54	102.08	102.84
19	48.30	0.00	?UNDEF	?UNDEF	50.20	0.00	100.98	103.03	163.60	0.00	102.86	102.55	102.20	102.70
20	48.60	0.00	?UNDEF	?UNDEF	49.20	0.00	100.94	103.28	163.10	0.00	102.99	102.39	102.22	102.55
21	48.10	0.00	?UNDEF	?UNDEF	41.60	0.00	100.93	102.51	162.10	0.00	103.14	102.27	102.08	102.55
22	47.50	0.00	?UNDEF	?UNDEF	40.30	0.00	100.96	101.49	160.50	0.00	103.18	102.27	102.08	102.42
23	46.90	0.00	?UNDEF	?UNDEF	39.40	0.00	100.97	101.09	157.30	0.00	102.75	102.26	101.95	102.30
24	30.70	0.00	?UNDEF	?UNDEF	20.40	0.00	101.01	100.80	140.00	0.00	102.74	102.29	101.97	102.30

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WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

21 FEB 2001

	DWORSHAK			:	STREAMFLOW			:	LOWER GRANITE			:	LITTLE GOOSE				
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	:	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.50	0.00	104.28	:	?UNDEF	?UNDEF	?UNDEF	:	11.00	0.00	102.12	102.30	:	14.00	0.00	?UNDEF	?UNDEF
2	1.50	0.00	104.44	:	?UNDEF	?UNDEF	?UNDEF	:	.10	0.00	101.94	102.15	:	12.50	0.00	?UNDEF	?UNDEF
3	1.50	0.00	104.50	:	?UNDEF	?UNDEF	?UNDEF	:	.10	0.00	101.94	102.00	:	15.50	0.00	?UNDEF	?UNDEF
4	1.50	0.00	104.48	:	?UNDEF	?UNDEF	?UNDEF	:	.10	0.00	101.98	102.04	:	12.50	0.00	?UNDEF	?UNDEF
5	1.50	0.00	104.36	:	?UNDEF	?UNDEF	?UNDEF	:	1.20	0.00	102.00	102.03	:	14.00	0.00	?UNDEF	?UNDEF
6	1.50	0.00	104.37	:	?UNDEF	?UNDEF	?UNDEF	:	16.00	0.00	102.14	101.90	:	14.00	0.00	?UNDEF	?UNDEF
7	1.50	0.00	104.23	:	?UNDEF	?UNDEF	?UNDEF	:	19.50	0.00	102.14	101.91	:	17.90	0.00	?UNDEF	?UNDEF
8	1.50	0.00	104.36	:	?UNDEF	?UNDEF	?UNDEF	:	26.40	0.00	102.10	101.90	:	24.30	0.00	?UNDEF	?UNDEF
9	1.50	0.00	104.75	:	?UNDEF	?UNDEF	?UNDEF	:	27.20	0.00	102.10	101.88	:	24.30	0.00	?UNDEF	?UNDEF
10	1.40	0.00	105.32	:	?UNDEF	?UNDEF	?UNDEF	:	27.90	0.00	102.14	102.06	:	24.50	0.00	?UNDEF	?UNDEF
11	1.40	0.00	105.87	:	?UNDEF	?UNDEF	?UNDEF	:	27.60	0.00	102.29	102.07	:	24.40	0.00	?UNDEF	?UNDEF
12	1.40	0.00	106.76	:	?UNDEF	?UNDEF	?UNDEF	:	27.50	0.00	102.40	102.18	:	25.30	0.00	?UNDEF	?UNDEF
13	1.40	0.00	107.55	:	?UNDEF	?UNDEF	?UNDEF	:	27.90	0.00	102.36	102.26	:	26.40	0.00	?UNDEF	?UNDEF
14	1.40	0.00	107.77	:	?UNDEF	?UNDEF	?UNDEF	:	27.60	0.00	102.69	102.21	:	26.20	0.00	?UNDEF	?UNDEF
15	1.40	0.00	107.67	:	?UNDEF	?UNDEF	?UNDEF	:	18.40	0.00	102.70	102.36	:	26.50	0.00	?UNDEF	?UNDEF
16	1.40	0.00	107.41	:	?UNDEF	?UNDEF	?UNDEF	:	17.50	0.00	102.70	102.21	:	26.50	0.00	?UNDEF	?UNDEF
17	1.40	0.00	106.49	:	?UNDEF	?UNDEF	?UNDEF	:	17.60	0.00	102.70	102.22	:	26.70	0.00	?UNDEF	?UNDEF
18	1.40	0.00	106.85	:	?UNDEF	?UNDEF	?UNDEF	:	17.60	0.00	102.65	102.08	:	27.00	0.00	?UNDEF	?UNDEF
19	1.40	0.00	106.49	:	?UNDEF	?UNDEF	?UNDEF	:	19.90	0.00	102.67	102.06	:	26.50	0.00	?UNDEF	?UNDEF
20	1.40	0.00	106.66	:	?UNDEF	?UNDEF	?UNDEF	:	21.20	0.00	102.58	102.10	:	25.10	0.00	?UNDEF	?UNDEF
21	1.40	0.00	106.54	:	?UNDEF	?UNDEF	?UNDEF	:	20.90	0.00	102.57	102.12	:	25.10	0.00	?UNDEF	?UNDEF
22	1.40	0.00	106.48	:	?UNDEF	?UNDEF	?UNDEF	:	20.60	0.00	102.54	102.09	:	27.90	0.00	?UNDEF	?UNDEF
23	1.40	0.00	106.50	:	?UNDEF	?UNDEF	?UNDEF	:	12.90	0.00	102.48	101.86	:	15.80	0.00	?UNDEF	?UNDEF
24	1.40	0.00	106.45	:	?UNDEF	?UNDEF	?UNDEF	:	11.80	0.00	102.43	101.99	:	11.80	0.00	?UNDEF	?UNDEF
:																	
	LOWER MONUMENTAL			:	ICE HARBOR			:	MCNARY			:	PASCO				
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	:	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	:	GAS % SAT
1	13.10	0.00	?UNDEF	?UNDEF	:	9.30	0.00	100.04	99.74	:	58.50	0.00	100.88	101.22	100.65	:	101.61
2	14.60	0.00	?UNDEF	?UNDEF	:	10.70	0.00	100.08	99.61	:	57.80	0.00	101.02	100.85	100.51	:	101.48
3	13.10	0.00	?UNDEF	?UNDEF	:	9.20	0.00	100.09	99.62	:	56.30	0.00	101.17	100.87	100.54	:	101.45
4	13.20	0.00	?UNDEF	?UNDEF	:	9.20	0.00	100.08	99.66	:	67.50	0.00	101.20	100.75	100.68	:	101.36
5	13.20	0.00	?UNDEF	?UNDEF	:	9.30	0.00	100.09	99.80	:	79.30	0.00	101.21	100.80	100.69	:	101.24
6	15.10	0.00	?UNDEF	?UNDEF	:	14.10	0.00	100.11	99.93	:	94.20	0.00	101.24	100.80	100.96	:	101.16
7	19.60	0.00	?UNDEF	?UNDEF	:	20.60	0.00	100.09	100.09	:	104.30	0.00	101.39	100.81	101.00	:	101.11
8	21.10	0.00	?UNDEF	?UNDEF	:	32.50	0.00	100.22	100.08	:	124.10	0.00	101.23	100.77	100.86	:	101.11
9	21.10	0.00	?UNDEF	?UNDEF	:	32.10	0.00	100.24	100.35	:	109.50	0.00	101.65	100.95	101.00	:	101.11
10	22.70	0.00	?UNDEF	?UNDEF	:	31.60	0.00	100.25	100.38	:	109.00	0.00	101.93	101.10	101.15	:	101.12
11	21.00	0.00	?UNDEF	?UNDEF	:	33.00	0.00	100.26	100.78	:	109.00	0.00	102.07	101.13	101.28	:	101.15
12	21.10	0.00	?UNDEF	?UNDEF	:	33.20	0.00	100.34	100.88	:	106.30	0.00	102.15	101.14	101.49	:	101.40
13	22.90	0.00	?UNDEF	?UNDEF	:	31.40	0.00	100.40	100.89	:	113.40	0.00	102.35	101.38	101.85	:	101.66
14	20.90	0.00	?UNDEF	?UNDEF	:	21.50	0.00	100.40	101.10	:	112.90	0.00	102.55	101.41	102.00	:	101.88
15	29.90	0.00	?UNDEF	?UNDEF	:	33.80	0.00	100.44	101.00	:	113.30	0.00	102.57	101.57	101.89	:	102.05
16	29.60	0.00	?UNDEF	?UNDEF	:	36.20	0.00	100.52	100.86	:	113.30	0.00	102.33	101.61	101.81	:	102.34
17	32.50	0.00	?UNDEF	?UNDEF	:	35.20	0.00	100.52	100.86	:	113.90	0.00	102.50	101.78	101.94	:	102.34
18	34.30	0.00	?UNDEF	?UNDEF	:	34.70	0.00	100.66	100.88	:	109.70	0.00	102.07	101.78	101.67	:	102.34
19	32.50	0.00	?UNDEF	?UNDEF	:	34.50	0.00	100.62	100.71	:	108.90	0.00	102.32	101.83	101.47	:	102.31
20	28.50	0.00	?UNDEF	?UNDEF	:	39.50	0.00	100.58	100.67	:	109.00	0.00	102.18	101.72	101.23	:	102.23
21	29.10	0.00	?UNDEF	?UNDEF	:	43.30	0.00	100.49	100.48	:	108.60	0.00	102.17	101.69	101.10	:	102.09
22	25.50	0.00	?UNDEF	?UNDEF	:	28.40	0.00	100.36	100.30	:	107.50	0.00	102.02	101.67	101.09	:	101.94
23	14.20	0.00	?UNDEF	?UNDEF	:	20.60	0.00	100.34	100.20	:	96.10	0.00	101.74	101.54	101.10	:	101.94
24	11.80	0.00	?UNDEF	?UNDEF	:	10.20	0.00	100.25	100.09	:	93.50	0.00	101.76	101.41	101.23	:	101.94

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WALLA WALLA DISTRICT HYDRO PROJECTS
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	DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE				
HOUR :	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	:	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1 :	1.60	0.00	108.21	:	?UNDEF	?UNDEF	?UNDEF	:	12.10	0.00	102.35	101.87	:	12.70	0.00	?UNDEF	?UNDEF
2 :	1.60	0.00	103.99	:	?UNDEF	?UNDEF	?UNDEF	:	11.50	0.00	102.32	101.86	:	12.40	0.00	?UNDEF	?UNDEF
3 :	1.60	0.00	102.10	:	?UNDEF	?UNDEF	?UNDEF	:	11.50	0.00	102.35	101.87	:	12.30	0.00	?UNDEF	?UNDEF
4 :	1.60	0.00	101.38	:	?UNDEF	?UNDEF	?UNDEF	:	11.50	0.00	102.34	101.83	:	12.30	0.00	?UNDEF	?UNDEF
5 :	1.60	0.00	101.08	:	?UNDEF	?UNDEF	?UNDEF	:	11.90	0.00	102.32	101.81	:	15.30	0.00	?UNDEF	?UNDEF
6 :	1.60	0.00	100.96	:	?UNDEF	?UNDEF	?UNDEF	:	18.60	0.00	102.28	101.82	:	12.70	0.00	?UNDEF	?UNDEF
7 :	1.60	0.00	101.01	:	?UNDEF	?UNDEF	?UNDEF	:	22.20	0.00	102.24	101.75	:	20.90	0.00	?UNDEF	?UNDEF
8 :	1.60	0.00	101.26	:	?UNDEF	?UNDEF	?UNDEF	:	23.50	0.00	102.20	102.22	:	21.70	0.00	?UNDEF	?UNDEF
9 :	1.50	0.00	101.49	:	?UNDEF	?UNDEF	?UNDEF	:	25.70	0.00	102.27	101.91	:	29.50	0.00	?UNDEF	?UNDEF
10 :	1.50	0.00	102.55	:	?UNDEF	?UNDEF	?UNDEF	:	25.90	0.00	102.25	101.88	:	34.10	0.00	?UNDEF	?UNDEF
11 :	1.50	0.00	104.31	:	?UNDEF	?UNDEF	?UNDEF	:	28.40	0.00	102.34	101.90	:	31.10	0.00	?UNDEF	?UNDEF
12 :	1.50	0.00	105.15	:	?UNDEF	?UNDEF	?UNDEF	:	28.10	0.00	102.37	102.14	:	31.60	0.00	?UNDEF	?UNDEF
13 :	1.50	0.00	105.63	:	?UNDEF	?UNDEF	?UNDEF	:	28.00	0.00	102.36	102.15	:	31.10	0.00	?UNDEF	?UNDEF
14 :	1.50	0.00	105.87	:	?UNDEF	?UNDEF	?UNDEF	:	19.80	0.00	102.49	102.44	:	28.10	0.00	?UNDEF	?UNDEF
15 :	1.50	0.00	105.97	:	?UNDEF	?UNDEF	?UNDEF	:	20.10	0.00	102.46	102.27	:	28.00	0.00	?UNDEF	?UNDEF
16 :	1.50	0.00	105.70	:	?UNDEF	?UNDEF	?UNDEF	:	20.10	0.00	102.49	102.12	:	28.70	0.00	?UNDEF	?UNDEF
17 :	1.50	0.00	105.21	:	?UNDEF	?UNDEF	?UNDEF	:	21.80	0.00	102.48	102.28	:	28.20	0.00	?UNDEF	?UNDEF
18 :	1.50	0.00	104.90	:	?UNDEF	?UNDEF	?UNDEF	:	19.80	0.00	102.46	102.24	:	31.10	0.00	?UNDEF	?UNDEF
19 :	1.50	0.00	105.21	:	?UNDEF	?UNDEF	?UNDEF	:	20.10	0.00	102.30	102.24	:	28.00	0.00	?UNDEF	?UNDEF
20 :	1.50	0.00	104.45	:	?UNDEF	?UNDEF	?UNDEF	:	15.90	0.00	102.36	102.12	:	29.40	0.00	?UNDEF	?UNDEF
21 :	1.50	0.00	104.43	:	?UNDEF	?UNDEF	?UNDEF	:	15.30	0.00	102.20	102.14	:	28.00	0.00	?UNDEF	?UNDEF
22 :	1.50	0.00	104.32	:	?UNDEF	?UNDEF	?UNDEF	:	16.90	0.00	102.21	101.99	:	22.30	0.00	?UNDEF	?UNDEF
23 :	1.50	0.00	104.47	:	?UNDEF	?UNDEF	?UNDEF	:	13.80	0.00	102.06	102.14	:	12.80	0.00	?UNDEF	?UNDEF
24 :	1.50	0.00	104.44	:	?UNDEF	?UNDEF	?UNDEF	:	13.80	0.00	102.08	102.52	:	12.50	0.00	?UNDEF	?UNDEF
:	LOWER MONUMENTAL			:	ICE HARBOR			:	MCNARY			:	PASCO				
HOUR :	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	:	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	:	GAS % SAT
1 :	11.60	0.00	?UNDEF	?UNDEF	:	9.30	0.00	100.30	099.49	:	52.50	0.00	101.06	100.97	100.64	:	101.61
2 :	13.20	0.00	?UNDEF	?UNDEF	:	9.20	0.00	100.32	099.65	:	52.70	0.00	100.87	100.97	100.64	:	101.48
3 :	11.50	0.00	?UNDEF	?UNDEF	:	9.10	0.00	100.36	099.63	:	50.90	0.00	101.06	100.83	100.50	:	101.51
4 :	11.50	0.00	?UNDEF	?UNDEF	:	10.70	0.00	100.32	099.63	:	51.00	0.00	101.11	100.93	100.47	:	101.33
5 :	11.50	0.00	?UNDEF	?UNDEF	:	9.20	0.00	100.25	099.59	:	54.30	0.00	101.08	100.91	100.42	:	101.16
6 :	11.60	0.00	?UNDEF	?UNDEF	:	9.40	0.00	100.08	099.44	:	93.90	0.00	101.07	100.74	100.41	:	101.14
7 :	20.40	0.00	?UNDEF	?UNDEF	:	21.40	0.00	100.21	099.41	:	111.70	0.00	101.29	100.70	100.50	:	100.98
8 :	22.50	0.00	?UNDEF	?UNDEF	:	22.10	0.00	100.13	099.52	:	144.20	0.00	101.35	100.64	100.41	:	100.88
9 :	38.90	0.00	?UNDEF	?UNDEF	:	39.50	0.00	100.11	099.65	:	145.90	0.00	100.90	100.59	100.37	:	100.84
10 :	11.20	0.00	?UNDEF	?UNDEF	:	45.30	0.00	100.05	099.70	:	129.20	0.00	101.27	100.67	100.48	:	100.84
11 :	38.90	0.00	?UNDEF	?UNDEF	:	46.80	0.00	100.05	099.63	:	118.90	0.00	101.50	100.71	100.76	:	100.98
12 :	38.90	0.00	?UNDEF	?UNDEF	:	45.50	0.00	100.07	099.83	:	117.40	0.00	101.79	100.87	100.88	:	101.09
13 :	32.90	0.00	?UNDEF	?UNDEF	:	41.10	0.00	100.05	100.12	:	120.00	0.00	101.99	101.04	101.03	:	101.28
14 :	32.40	0.00	?UNDEF	?UNDEF	:	40.80	0.00	100.24	100.10	:	120.50	0.00	102.10	101.02	101.10	:	101.54
15 :	32.50	0.00	?UNDEF	?UNDEF	:	41.30	0.00	100.37	100.13	:	121.40	0.00	102.02	101.06	101.11	:	101.79
16 :	39.00	0.00	?UNDEF	?UNDEF	:	40.50	0.00	100.34	100.09	:	121.90	0.00	101.89	101.15	101.10	:	102.22
17 :	40.10	0.00	?UNDEF	?UNDEF	:	45.10	0.00	100.37	099.93	:	121.80	0.00	101.90	101.14	100.96	:	102.20
18 :	39.40	0.00	?UNDEF	?UNDEF	:	40.30	0.00	100.37	099.76	:	123.10	0.00	101.72	101.30	100.80	:	102.19
19 :	39.50	0.00	?UNDEF	?UNDEF	:	41.60	0.00	100.34	100.05	:	124.20	0.00	101.31	101.29	100.80	:	102.18
20 :	39.40	0.00	?UNDEF	?UNDEF	:	40.20	0.00	100.36	101.36	:	108.50	0.00	101.20	101.30	100.68	:	102.22
21 :	39.00	0.00	?UNDEF	?UNDEF	:	39.70	0.00	100.20	100.85	:	88.20	0.00	101.32	101.27	100.65	:	102.02
22 :	29.50	0.00	?UNDEF	?UNDEF	:	27.40	0.00	100.20	100.30	:	86.90	0.00	101.03	101.29	100.67	:	101.94
23 :	16.40	0.00	?UNDEF	?UNDEF	:	18.10	0.00	100.04	099.99	:	87.10	0.00	101.04	101.23	100.47	:	101.88
24 :	13.80	0.00	?UNDEF	?UNDEF	:	11.50	0.00	100.04	099.88	:	68.90	0.00	101.19	101.27	100.54	:	101.88

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	DWORSHAK			STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	2.50	0.00	096.65	?UNDEF	?UNDEF	?UNDEF	11.90	0.00	101.60	101.65	.80	0.00	?UNDEF	?UNDEF
2	2.50	0.00	096.66	?UNDEF	?UNDEF	?UNDEF	11.70	0.00	101.60	101.63	.20	0.00	?UNDEF	?UNDEF
3	2.60	0.00	096.80	?UNDEF	?UNDEF	?UNDEF	11.60	0.00	101.61	101.69	.20	0.00	?UNDEF	?UNDEF
4	3.00	0.00	096.66	?UNDEF	?UNDEF	?UNDEF	11.50	0.00	101.77	101.67	1.10	0.00	?UNDEF	?UNDEF
5	5.00	0.00	101.41	?UNDEF	?UNDEF	?UNDEF	11.90	0.00	101.52	101.73	12.30	0.00	?UNDEF	?UNDEF
6	5.90	0.00	098.07	?UNDEF	?UNDEF	?UNDEF	11.60	0.00	101.54	101.73	20.60	0.00	?UNDEF	?UNDEF
7	5.90	0.00	096.15	?UNDEF	?UNDEF	?UNDEF	11.60	0.00	101.56	101.75	21.10	0.00	?UNDEF	?UNDEF
8	6.00	0.00	096.00	?UNDEF	?UNDEF	?UNDEF	16.60	0.00	101.69	101.77	21.00	0.00	?UNDEF	?UNDEF
9	5.90	0.00	096.15	?UNDEF	?UNDEF	?UNDEF	16.90	0.00	101.90	101.81	17.90	0.00	?UNDEF	?UNDEF
10	5.80	0.00	096.20	?UNDEF	?UNDEF	?UNDEF	17.10	0.00	102.04	101.79	17.20	0.00	?UNDEF	?UNDEF
11	5.80	0.00	096.25	?UNDEF	?UNDEF	?UNDEF	16.90	0.00	102.15	101.86	17.10	0.00	?UNDEF	?UNDEF
12	5.80	0.00	096.34	?UNDEF	?UNDEF	?UNDEF	17.20	0.00	102.08	101.84	17.00	0.00	?UNDEF	?UNDEF
13	5.90	0.00	096.59	?UNDEF	?UNDEF	?UNDEF	17.40	0.00	102.33	102.07	17.10	0.00	?UNDEF	?UNDEF
14	5.90	0.00	096.81	?UNDEF	?UNDEF	?UNDEF	18.20	0.00	102.37	102.15	20.40	0.00	?UNDEF	?UNDEF
15	5.80	0.00	096.84	?UNDEF	?UNDEF	?UNDEF	27.80	0.00	102.37	102.15	26.80	0.00	?UNDEF	?UNDEF
16	5.90	0.00	096.73	?UNDEF	?UNDEF	?UNDEF	28.00	0.00	102.37	102.13	30.40	0.00	?UNDEF	?UNDEF
17	5.80	0.00	096.56	?UNDEF	?UNDEF	?UNDEF	29.60	0.00	102.38	102.18	30.30	0.00	?UNDEF	?UNDEF
18	5.90	0.00	096.40	?UNDEF	?UNDEF	?UNDEF	29.80	0.00	102.44	102.09	30.40	0.00	?UNDEF	?UNDEF
19	5.90	0.00	096.56	?UNDEF	?UNDEF	?UNDEF	27.90	0.00	102.54	102.07	30.30	0.00	?UNDEF	?UNDEF
20	5.90	0.00	096.16	?UNDEF	?UNDEF	?UNDEF	28.60	0.00	102.52	102.07	30.40	0.00	?UNDEF	?UNDEF
21	5.80	0.00	096.10	?UNDEF	?UNDEF	?UNDEF	28.20	0.00	102.52	102.02	30.30	0.00	?UNDEF	?UNDEF
22	4.60	0.00	096.04	?UNDEF	?UNDEF	?UNDEF	27.30	0.00	102.43	101.96	30.60	0.00	?UNDEF	?UNDEF
23	2.60	0.00	097.37	?UNDEF	?UNDEF	?UNDEF	21.50	0.00	102.39	101.90	29.90	0.00	?UNDEF	?UNDEF
24	1.60	0.00	107.14	?UNDEF	?UNDEF	?UNDEF	19.10	0.00	102.36	101.89	24.50	0.00	?UNDEF	?UNDEF
	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO	
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	11.90	0.00	?UNDEF	?UNDEF	9.50	0.00	100.08	099.37	51.50	0.00	101.64	100.95	100.62	101.61
2	11.60	0.00	?UNDEF	?UNDEF	9.00	0.00	100.08	099.29	51.40	0.00	101.64	100.93	100.72	101.46
3	11.60	0.00	?UNDEF	?UNDEF	9.20	0.00	100.11	099.29	51.40	0.00	101.52	101.04	100.72	101.37
4	11.60	0.00	?UNDEF	?UNDEF	9.10	0.00	100.11	099.28	51.90	0.00	101.19	101.10	100.62	101.20
5	12.00	0.00	?UNDEF	?UNDEF	10.90	0.00	100.11	099.15	61.70	0.00	101.11	101.08	100.87	101.10
6	20.50	0.00	?UNDEF	?UNDEF	21.30	0.00	100.11	099.15	111.80	0.00	101.30	101.06	101.13	100.95
7	21.10	0.00	?UNDEF	?UNDEF	23.40	0.00	100.15	099.29	148.90	0.00	101.41	101.06	100.88	100.86
8	21.10	0.00	?UNDEF	?UNDEF	21.90	0.00	100.11	099.55	160.80	0.00	101.61	101.02	100.84	100.84
9	18.10	0.00	?UNDEF	?UNDEF	19.30	0.00	100.11	099.97	162.40	0.00	101.76	101.00	100.80	100.83
10	18.40	0.00	?UNDEF	?UNDEF	19.10	0.00	100.24	100.14	162.40	0.00	101.88	101.02	100.96	100.87
11	19.50	0.00	?UNDEF	?UNDEF	19.40	0.00	100.24	100.27	149.50	0.00	101.90	101.06	101.10	100.91
12	19.40	0.00	?UNDEF	?UNDEF	20.60	0.00	100.32	100.48	148.10	0.00	101.73	101.38	101.47	101.24
13	17.70	0.00	?UNDEF	?UNDEF	19.00	0.00	100.52	100.56	148.00	0.00	101.75	101.57	101.59	101.40
14	18.50	0.00	?UNDEF	?UNDEF	19.40	0.00	100.52	100.59	148.50	0.00	101.96	101.62	101.55	101.73
15	32.10	0.00	?UNDEF	?UNDEF	32.90	0.00	100.42	100.62	148.30	0.00	101.97	101.79	101.58	101.89
16	33.00	0.00	?UNDEF	?UNDEF	35.80	0.00	100.46	100.60	148.70	0.00	102.12	101.78	101.56	102.21
17	33.10	0.00	?UNDEF	?UNDEF	36.30	0.00	100.45	100.43	148.80	0.00	101.83	101.66	101.59	102.33
18	33.90	0.00	?UNDEF	?UNDEF	35.80	0.00	100.44	100.13	150.70	0.00	101.69	101.50	101.29	102.42
19	33.00	0.00	?UNDEF	?UNDEF	35.40	0.00	100.41	099.97	163.50	0.00	101.52	101.47	101.17	102.26
20	27.60	0.00	?UNDEF	?UNDEF	29.00	0.00	100.40	099.82	172.80	0.00	101.73	101.29	100.97	102.26
21	27.00	0.00	?UNDEF	?UNDEF	28.40	0.00	100.50	099.86	172.80	0.00	101.71	101.12	100.96	102.06
22	25.20	0.00	?UNDEF	?UNDEF	23.60	0.00	100.46	099.76	138.30	0.00	101.43	101.10	100.93	101.92
23	20.80	0.00	?UNDEF	?UNDEF	21.20	0.00	100.48	099.63	83.20	0.00	101.43	101.12	100.92	101.93
24	12.90	0.00	?UNDEF	?UNDEF	11.40	0.00	100.44	099.62	52.20	0.00	101.26	100.96	100.80	101.93

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HOUR	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	2.50	0.00	096.99	?UNDEF	?UNDEF	?UNDEF	13.90	0.00	101.73	101.67	12.30	0.00	?UNDEF	?UNDEF
2	2.50	0.00	096.94	?UNDEF	?UNDEF	?UNDEF	13.90	0.00	101.83	101.72	12.40	0.00	?UNDEF	?UNDEF
3	2.60	0.00	096.84	?UNDEF	?UNDEF	?UNDEF	13.90	0.00	101.77	101.72	12.40	0.00	?UNDEF	?UNDEF
4	2.50	0.00	096.94	?UNDEF	?UNDEF	?UNDEF	13.90	0.00	101.80	101.69	12.40	0.00	?UNDEF	?UNDEF
5	2.50	0.00	096.82	?UNDEF	?UNDEF	?UNDEF	14.20	0.00	101.77	101.59	12.30	0.00	?UNDEF	?UNDEF
6	2.50	0.00	096.94	?UNDEF	?UNDEF	?UNDEF	14.10	0.00	101.75	101.53	12.30	0.00	?UNDEF	?UNDEF
7	2.50	0.00	096.75	?UNDEF	?UNDEF	?UNDEF	19.40	0.00	101.57	101.32	12.60	0.00	?UNDEF	?UNDEF
8	2.60	0.00	097.01	?UNDEF	?UNDEF	?UNDEF	19.80	0.00	101.41	101.19	12.40	0.00	?UNDEF	?UNDEF
9	2.50	0.00	097.09	?UNDEF	?UNDEF	?UNDEF	19.70	0.00	101.47	101.26	12.50	0.00	?UNDEF	?UNDEF
10	2.50	0.00	097.27	?UNDEF	?UNDEF	?UNDEF	20.20	0.00	101.61	101.30	20.30	0.00	?UNDEF	?UNDEF
11	2.50	0.00	097.24	?UNDEF	?UNDEF	?UNDEF	19.80	0.00	101.73	101.20	20.80	0.00	?UNDEF	?UNDEF
12	2.50	0.00	097.43	?UNDEF	?UNDEF	?UNDEF	19.70	0.00	101.74	101.38	20.50	0.00	?UNDEF	?UNDEF
13	2.60	0.00	097.58	?UNDEF	?UNDEF	?UNDEF	17.70	0.00	101.84	101.43	14.80	0.00	?UNDEF	?UNDEF
14	2.50	0.00	097.74	?UNDEF	?UNDEF	?UNDEF	17.50	0.00	101.81	101.62	14.30	0.00	?UNDEF	?UNDEF
15	2.50	0.00	097.59	?UNDEF	?UNDEF	?UNDEF	17.80	0.00	101.85	101.62	14.40	0.00	?UNDEF	?UNDEF
16	2.50	0.00	097.46	?UNDEF	?UNDEF	?UNDEF	17.60	0.00	101.96	101.59	14.30	0.00	?UNDEF	?UNDEF
17	2.60	0.00	097.07	?UNDEF	?UNDEF	?UNDEF	20.30	0.00	101.88	101.66	14.40	0.00	?UNDEF	?UNDEF
18	2.50	0.00	096.80	?UNDEF	?UNDEF	?UNDEF	20.60	0.00	101.89	101.65	20.00	0.00	?UNDEF	?UNDEF
19	2.50	0.00	097.07	?UNDEF	?UNDEF	?UNDEF	20.60	0.00	101.73	101.65	21.00	0.00	?UNDEF	?UNDEF
20	2.50	0.00	096.61	?UNDEF	?UNDEF	?UNDEF	20.80	0.00	101.57	101.66	23.70	0.00	?UNDEF	?UNDEF
21	2.50	0.00	096.62	?UNDEF	?UNDEF	?UNDEF	20.40	0.00	101.61	101.69	20.80	0.00	?UNDEF	?UNDEF
22	2.60	0.00	096.62	?UNDEF	?UNDEF	?UNDEF	21.10	0.00	101.56	101.65	20.80	0.00	?UNDEF	?UNDEF
23	2.50	0.00	096.61	?UNDEF	?UNDEF	?UNDEF	21.10	0.00	101.58	101.63	20.80	0.00	?UNDEF	?UNDEF
24	2.50	0.00	096.78	?UNDEF	?UNDEF	?UNDEF	21.10	0.00	101.57	101.65	20.20	0.00	?UNDEF	?UNDEF
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO	
	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	13.70	0.00	?UNDEF	?UNDEF	13.50	0.00	100.13	099.44	69.70	0.00	101.35	100.60	100.42	100.87
2	13.60	0.00	?UNDEF	?UNDEF	9.30	0.00	100.11	099.42	68.40	0.00	101.22	100.62	100.45	100.87
3	13.40	0.00	?UNDEF	?UNDEF	9.10	0.00	100.03	099.32	59.00	0.00	101.23	100.64	100.46	100.81
4	13.50	0.00	?UNDEF	?UNDEF	9.10	0.00	099.97	099.32	56.70	0.00	101.10	100.55	100.20	100.73
5	13.60	0.00	?UNDEF	?UNDEF	9.40	0.00	099.87	099.20	59.10	0.00	101.00	100.50	100.12	100.52
6	13.60	0.00	?UNDEF	?UNDEF	13.70	0.00	099.84	099.21	68.50	0.00	100.91	100.46	100.12	100.55
7	13.60	0.00	?UNDEF	?UNDEF	13.90	0.00	099.92	099.11	90.30	0.00	100.96	100.41	100.21	100.46
8	13.60	0.00	?UNDEF	?UNDEF	13.90	0.00	099.74	099.11	116.40	0.00	100.75	100.35	100.22	100.25
9	14.10	0.00	?UNDEF	?UNDEF	14.50	0.00	099.72	099.37	129.50	0.00	100.76	100.31	100.37	100.20
10	19.80	0.00	?UNDEF	?UNDEF	19.60	0.00	099.87	099.33	125.80	0.00	101.15	100.45	100.50	100.22
11	20.10	0.00	?UNDEF	?UNDEF	19.60	0.00	099.84	099.59	123.10	0.00	101.40	100.56	100.79	100.37
12	19.50	0.00	?UNDEF	?UNDEF	21.00	0.00	099.88	099.95	123.80	0.00	101.61	100.76	100.94	100.69
13	11.90	0.00	?UNDEF	?UNDEF	12.10	0.00	099.95	100.38	103.20	0.00	101.52	101.08	101.15	100.87
14	11.40	0.00	?UNDEF	?UNDEF	9.80	0.00	099.95	100.25	104.00	0.00	101.72	101.13	101.18	101.29
15	11.40	0.00	?UNDEF	?UNDEF	9.80	0.00	099.93	100.35	86.40	0.00	101.70	101.29	101.19	101.57
16	11.40	0.00	?UNDEF	?UNDEF	9.80	0.00	099.99	100.55	68.80	0.00	101.89	101.46	101.09	101.99
17	15.50	0.00	?UNDEF	?UNDEF	11.60	0.00	100.16	100.55	68.00	0.00	101.89	101.49	101.17	102.27
18	19.70	0.00	?UNDEF	?UNDEF	17.90	0.00	100.13	100.61	68.60	0.00	101.97	101.38	101.06	102.27
19	20.00	0.00	?UNDEF	?UNDEF	18.30	0.00	100.13	100.38	68.70	0.00	101.39	101.20	101.01	102.26
20	20.00	0.00	?UNDEF	?UNDEF	17.90	0.00	100.13	100.25	66.20	0.00	101.52	101.20	101.05	102.26
21	20.00	0.00	?UNDEF	?UNDEF	17.90	0.00	100.15	099.96	65.70	0.00	101.71	101.22	100.92	102.07
22	19.90	0.00	?UNDEF	?UNDEF	17.90	0.00	100.13	099.83	58.00	0.00	101.53	101.09	100.75	101.94
23	20.30	0.00	?UNDEF	?UNDEF	17.90	0.00	100.13	099.71	53.70	0.00	101.53	101.08	100.75	101.91
24	19.50	0.00	?UNDEF	?UNDEF	17.90	0.00	100.07	099.49	52.40	0.00	101.61	101.04	100.59	101.91

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HOUR	DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	2.50	0.00	097.37	?UNDEF	?UNDEF	?UNDEF	?UNDEF	13.80	0.00	100.31	100.23	12.60	0.00	?UNDEF	?UNDEF
2	2.50	0.00	096.42	?UNDEF	?UNDEF	?UNDEF	?UNDEF	13.60	0.00	100.28	100.24	12.40	0.00	?UNDEF	?UNDEF
3	2.50	0.00	096.30	?UNDEF	?UNDEF	?UNDEF	?UNDEF	13.60	0.00	100.35	100.27	13.90	0.00	?UNDEF	?UNDEF
4	2.60	0.00	096.32	?UNDEF	?UNDEF	?UNDEF	?UNDEF	13.70	0.00	100.41	100.31	13.90	0.00	?UNDEF	?UNDEF
5	2.50	0.00	096.18	?UNDEF	?UNDEF	?UNDEF	?UNDEF	13.60	0.00	100.44	100.36	12.40	0.00	?UNDEF	?UNDEF
6	2.50	0.00	096.18	?UNDEF	?UNDEF	?UNDEF	?UNDEF	17.20	0.00	100.65	100.43	12.80	0.00	?UNDEF	?UNDEF
7	2.50	0.00	096.18	?UNDEF	?UNDEF	?UNDEF	?UNDEF	17.40	0.00	100.68	100.49	19.70	0.00	?UNDEF	?UNDEF
8	2.60	0.00	096.35	?UNDEF	?UNDEF	?UNDEF	?UNDEF	17.50	0.00	100.73	100.47	20.20	0.00	?UNDEF	?UNDEF
9	2.50	0.00	096.50	?UNDEF	?UNDEF	?UNDEF	?UNDEF	17.80	0.00	100.89	100.49	20.20	0.00	?UNDEF	?UNDEF
10	2.50	0.00	096.71	?UNDEF	?UNDEF	?UNDEF	?UNDEF	17.50	0.00	101.08	100.86	20.20	0.00	?UNDEF	?UNDEF
11	2.50	0.00	096.87	?UNDEF	?UNDEF	?UNDEF	?UNDEF	17.50	0.00	101.12	100.89	20.30	0.00	?UNDEF	?UNDEF
12	2.50	0.00	097.27	?UNDEF	?UNDEF	?UNDEF	?UNDEF	17.50	0.00	101.15	101.08	20.20	0.00	?UNDEF	?UNDEF
13	2.60	0.00	097.51	?UNDEF	?UNDEF	?UNDEF	?UNDEF	17.50	0.00	101.24	101.16	20.50	0.00	?UNDEF	?UNDEF
14	2.50	0.00	097.51	?UNDEF	?UNDEF	?UNDEF	?UNDEF	18.20	0.00	101.35	101.23	20.20	0.00	?UNDEF	?UNDEF
15	2.50	0.00	097.56	?UNDEF	?UNDEF	?UNDEF	?UNDEF	27.10	0.00	101.43	101.32	20.20	0.00	?UNDEF	?UNDEF
16	2.50	0.00	097.35	?UNDEF	?UNDEF	?UNDEF	?UNDEF	27.70	0.00	101.53	101.44	20.40	0.00	?UNDEF	?UNDEF
17	2.50	0.00	097.20	?UNDEF	?UNDEF	?UNDEF	?UNDEF	27.80	0.00	101.54	101.48	27.60	0.00	?UNDEF	?UNDEF
18	2.60	0.00	096.82	?UNDEF	?UNDEF	?UNDEF	?UNDEF	31.30	0.00	101.57	101.50	31.60	0.00	?UNDEF	?UNDEF
19	2.50	0.00	097.20	?UNDEF	?UNDEF	?UNDEF	?UNDEF	35.50	0.00	101.64	101.54	34.60	0.00	?UNDEF	?UNDEF
20	2.50	0.00	096.93	?UNDEF	?UNDEF	?UNDEF	?UNDEF	34.50	0.00	101.76	101.70	34.70	0.00	?UNDEF	?UNDEF
21	2.50	0.00	096.93	?UNDEF	?UNDEF	?UNDEF	?UNDEF	26.40	0.00	101.84	101.78	34.50	0.00	?UNDEF	?UNDEF
22	2.50	0.00	096.94	?UNDEF	?UNDEF	?UNDEF	?UNDEF	20.20	0.00	101.90	101.84	28.10	0.00	?UNDEF	?UNDEF
23	2.60	0.00	096.97	?UNDEF	?UNDEF	?UNDEF	?UNDEF	19.70	0.00	101.90	101.78	22.60	0.00	?UNDEF	?UNDEF
24	2.50	0.00	097.03	?UNDEF	?UNDEF	?UNDEF	?UNDEF	14.60	0.00	101.69	101.63	13.00	0.00	?UNDEF	?UNDEF

HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO	
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	13.10	0.00	?UNDEF	?UNDEF	12.50	0.00	098.73	098.16	92.40	0.00	100.10	099.53	099.31	099.45
2	13.10	0.00	?UNDEF	?UNDEF	12.60	0.00	098.76	098.21	96.60	0.00	100.16	099.60	099.35	099.36
3	13.10	0.00	?UNDEF	?UNDEF	12.70	0.00	098.97	098.29	96.10	0.00	100.20	099.48	099.43	099.44
4	13.20	0.00	?UNDEF	?UNDEF	12.60	0.00	099.02	098.29	122.00	0.00	100.24	099.53	099.45	099.48
5	13.20	0.00	?UNDEF	?UNDEF	14.20	0.00	099.01	098.35	134.00	0.00	100.24	099.53	099.47	099.48
6	14.90	0.00	?UNDEF	?UNDEF	14.90	0.00	099.04	098.39	134.50	0.00	100.29	099.58	099.54	099.50
7	20.10	0.00	?UNDEF	?UNDEF	19.70	0.00	099.07	098.40	134.50	0.00	100.29	099.60	099.40	099.38
8	20.60	0.00	?UNDEF	?UNDEF	20.00	0.00	099.10	098.38	145.60	0.00	100.34	099.62	099.44	099.41
9	21.70	0.00	?UNDEF	?UNDEF	20.10	0.00	099.15	098.43	145.40	0.00	100.34	099.65	099.54	099.45
10	20.30	0.00	?UNDEF	?UNDEF	20.20	0.00	099.17	098.58	148.40	0.00	100.37	099.80	099.66	099.45
11	19.90	0.00	?UNDEF	?UNDEF	20.00	0.00	099.14	098.62	149.00	0.00	100.51	099.80	099.70	099.48
12	20.10	0.00	?UNDEF	?UNDEF	21.70	0.00	099.24	098.91	150.20	0.00	100.58	100.04	099.95	099.70
13	19.70	0.00	?UNDEF	?UNDEF	24.70	0.00	099.32	099.14	149.00	0.00	100.88	100.16	100.09	100.00
14	19.40	0.00	?UNDEF	?UNDEF	26.70	0.00	099.49	099.23	148.00	0.00	100.95	100.22	100.14	100.25
15	26.90	0.00	?UNDEF	?UNDEF	30.50	0.00	099.51	099.27	149.00	0.00	101.20	100.34	100.25	100.45
16	27.30	0.00	?UNDEF	?UNDEF	29.20	0.00	099.75	099.61	150.50	0.00	101.12	100.39	100.34	100.66
17	27.90	0.00	?UNDEF	?UNDEF	29.00	0.00	099.84	099.79	151.50	0.00	101.17	100.50	100.39	100.87
18	30.80	0.00	?UNDEF	?UNDEF	29.20	0.00	099.88	099.57	143.10	0.00	101.25	100.58	100.51	100.95
19	34.10	0.00	?UNDEF	?UNDEF	34.20	0.00	099.99	099.54	140.40	0.00	101.37	100.63	100.43	101.02
20	34.20	0.00	?UNDEF	?UNDEF	34.60	0.00	100.04	099.62	139.00	0.00	101.40	100.51	100.45	101.10
21	34.20	0.00	?UNDEF	?UNDEF	34.40	0.00	100.09	099.53	119.90	0.00	101.34	100.58	100.51	101.12
22	34.20	0.00	?UNDEF	?UNDEF	34.80	0.00	100.12	099.55	118.90	0.00	101.32	100.60	100.49	101.14
23	28.50	0.00	?UNDEF	?UNDEF	33.40	0.00	100.05	099.52	95.70	0.00	101.28	100.58	100.49	101.03
24	14.30	0.00	?UNDEF	?UNDEF	14.70	0.00	100.09	099.42	89.90	0.00	101.30	100.57	100.47	101.03

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WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

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	DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE				
HOUR :	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	:	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1 :	5.90	0.00	095.46	:	?UNDEF	?UNDEF	?UNDEF	:	17.90	0.00	100.90	100.71	:	27.00	0.00	?UNDEF	?UNDEF
2 :	5.90	0.00	095.59	:	?UNDEF	?UNDEF	?UNDEF	:	12.90	0.00	100.87	100.70	:	13.10	0.00	?UNDEF	?UNDEF
3 :	5.90	0.00	095.59	:	?UNDEF	?UNDEF	?UNDEF	:	12.60	0.00	100.90	100.60	:	12.40	0.00	?UNDEF	?UNDEF
4 :	5.90	0.00	095.48	:	?UNDEF	?UNDEF	?UNDEF	:	12.60	0.00	100.78	100.59	:	12.40	0.00	?UNDEF	?UNDEF
5 :	6.00	0.00	095.42	:	?UNDEF	?UNDEF	?UNDEF	:	20.10	0.00	100.72	100.53	:	12.60	0.00	?UNDEF	?UNDEF
6 :	5.90	0.00	095.40	:	?UNDEF	?UNDEF	?UNDEF	:	24.40	0.00	100.63	100.43	:	20.40	0.00	?UNDEF	?UNDEF
7 :	5.90	0.00	095.33	:	?UNDEF	?UNDEF	?UNDEF	:	28.30	0.00	100.59	100.33	:	28.70	0.00	?UNDEF	?UNDEF
8 :	5.90	0.00	095.40	:	?UNDEF	?UNDEF	?UNDEF	:	29.00	0.00	100.56	100.21	:	31.60	0.00	?UNDEF	?UNDEF
9 :	5.90	0.00	095.35	:	?UNDEF	?UNDEF	?UNDEF	:	28.60	0.00	100.35	100.12	:	28.70	0.00	?UNDEF	?UNDEF
10 :	6.00	0.00	095.60	:	?UNDEF	?UNDEF	?UNDEF	:	28.60	0.00	100.35	100.01	:	28.50	0.00	?UNDEF	?UNDEF
11 :	5.90	0.00	095.51	:	?UNDEF	?UNDEF	?UNDEF	:	28.60	0.00	100.41	100.05	:	28.60	0.00	?UNDEF	?UNDEF
12 :	5.90	0.00	095.64	:	?UNDEF	?UNDEF	?UNDEF	:	29.20	0.00	100.41	100.03	:	28.50	0.00	?UNDEF	?UNDEF
13 :	5.90	0.00	095.75	:	?UNDEF	?UNDEF	?UNDEF	:	28.60	0.00	100.29	100.01	:	29.30	0.00	?UNDEF	?UNDEF
14 :	5.90	0.00	095.72	:	?UNDEF	?UNDEF	?UNDEF	:	25.40	0.00	100.36	099.99	:	28.80	0.00	?UNDEF	?UNDEF
15 :	5.80	0.00	095.58	:	?UNDEF	?UNDEF	?UNDEF	:	25.00	0.00	100.44	099.95	:	28.80	0.00	?UNDEF	?UNDEF
16 :	5.90	0.00	095.54	:	?UNDEF	?UNDEF	?UNDEF	:	25.00	0.00	100.40	099.91	:	28.70	0.00	?UNDEF	?UNDEF
17 :	5.90	0.00	095.38	:	?UNDEF	?UNDEF	?UNDEF	:	27.00	0.00	100.39	100.04	:	28.60	0.00	?UNDEF	?UNDEF
18 :	5.90	0.00	095.21	:	?UNDEF	?UNDEF	?UNDEF	:	27.00	0.00	100.32	100.00	:	29.30	0.00	?UNDEF	?UNDEF
19 :	6.00	0.00	095.38	:	?UNDEF	?UNDEF	?UNDEF	:	25.40	0.00	100.29	099.97	:	29.80	0.00	?UNDEF	?UNDEF
20 :	5.80	0.00	095.26	:	?UNDEF	?UNDEF	?UNDEF	:	25.30	0.00	100.28	099.99	:	29.30	0.00	?UNDEF	?UNDEF
21 :	5.80	0.00	095.10	:	?UNDEF	?UNDEF	?UNDEF	:	25.20	0.00	100.27	099.92	:	29.00	0.00	?UNDEF	?UNDEF
22 :	5.70	0.00	095.08	:	?UNDEF	?UNDEF	?UNDEF	:	19.70	0.00	100.39	099.91	:	19.50	0.00	?UNDEF	?UNDEF
23 :	4.30	0.00	095.05	:	?UNDEF	?UNDEF	?UNDEF	:	17.70	0.00	100.39	100.30	:	18.30	0.00	?UNDEF	?UNDEF
24 :	2.60	0.00	096.54	:	?UNDEF	?UNDEF	?UNDEF	:	17.40	0.00	100.29	100.21	:	17.70	0.00	?UNDEF	?UNDEF
	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO				
HOUR :	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	:	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	:	GAS % SAT
1 :	40.90	0.00	?UNDEF	?UNDEF	:	40.80	0.00	099.75	099.18	:	98.40	0.00	100.96	100.55	100.14	:	100.58
2 :	30.40	0.00	?UNDEF	?UNDEF	:	32.30	0.00	099.71	099.12	:	116.00	0.00	100.92	100.38	100.39	:	100.34
3 :	15.50	0.00	?UNDEF	?UNDEF	:	12.50	0.00	099.68	098.97	:	140.80	0.00	100.76	100.21	100.25	:	100.25
4 :	13.00	0.00	?UNDEF	?UNDEF	:	9.30	0.00	099.49	098.79	:	161.50	0.00	100.87	100.03	100.14	:	100.07
5 :	13.00	0.00	?UNDEF	?UNDEF	:	9.20	0.00	099.42	098.72	:	160.90	0.00	100.78	099.97	099.99	:	100.00
6 :	13.20	0.00	?UNDEF	?UNDEF	:	9.50	0.00	099.36	098.51	:	164.20	0.00	100.70	099.88	100.04	:	099.80
7 :	20.00	0.00	?UNDEF	?UNDEF	:	22.30	0.00	099.40	098.71	:	161.10	0.00	100.46	099.67	099.97	:	099.62
8 :	29.30	0.00	?UNDEF	?UNDEF	:	30.00	0.00	099.27	098.89	:	140.30	0.00	100.35	099.71	099.74	:	099.53
9 :	29.90	0.00	?UNDEF	?UNDEF	:	30.30	0.00	099.19	098.79	:	139.70	0.00	100.42	099.66	099.69	:	099.29
10 :	30.00	0.00	?UNDEF	?UNDEF	:	30.50	0.00	099.16	098.80	:	121.90	0.00	100.39	099.73	099.73	:	099.20
11 :	30.40	0.00	?UNDEF	?UNDEF	:	32.10	0.00	099.07	100.03	:	119.80	0.00	100.31	099.65	099.78	:	099.28
12 :	30.30	0.00	?UNDEF	?UNDEF	:	30.50	0.00	099.07	100.77	:	119.70	0.00	100.45	099.74	099.80	:	099.27
13 :	31.80	0.00	?UNDEF	?UNDEF	:	30.50	0.00	099.04	100.49	:	119.40	0.00	100.43	099.71	099.88	:	099.37
14 :	32.30	0.00	?UNDEF	?UNDEF	:	30.40	0.00	099.03	101.29	:	117.90	0.00	100.58	099.84	100.01	:	099.49
15 :	30.30	0.00	?UNDEF	?UNDEF	:	30.60	0.00	099.03	099.84	:	120.00	0.00	100.64	099.92	100.00	:	099.58
16 :	30.40	0.00	?UNDEF	?UNDEF	:	31.10	0.00	099.02	099.42	:	124.80	0.00	100.63	099.77	099.97	:	099.73
17 :	30.50	0.00	?UNDEF	?UNDEF	:	33.60	0.00	098.99	100.22	:	124.20	0.00	100.50	099.75	099.82	:	099.86
18 :	30.80	0.00	?UNDEF	?UNDEF	:	32.60	0.00	098.95	099.27	:	122.60	0.00	100.30	099.73	099.64	:	099.91
19 :	31.00	0.00	?UNDEF	?UNDEF	:	31.10	0.00	098.90	099.49	:	123.60	0.00	100.14	099.56	099.45	:	099.88
20 :	30.90	0.00	?UNDEF	?UNDEF	:	31.20	0.00	098.90	099.07	:	123.90	0.00	100.13	099.66	099.47	:	099.87
21 :	30.50	0.00	?UNDEF	?UNDEF	:	30.50	0.00	098.85	098.55	:	122.40	0.00	100.08	099.53	099.44	:	099.74
22 :	19.10	0.00	?UNDEF	?UNDEF	:	18.50	0.00	098.83	098.32	:	121.50	0.00	100.08	099.54	099.40	:	099.70
23 :	14.00	0.00	?UNDEF	?UNDEF	:	12.80	0.00	098.73	098.16	:	93.20	0.00	100.08	099.52	099.31	:	099.58
24 :	14.10	0.00	?UNDEF	?UNDEF	:	12.60	0.00	098.86	098.14	:	97.30	0.00	100.08	099.52	099.43	:	099.58

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	DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.		
1	5.90	0.00	096.34	?UNDEF	?UNDEF	?UNDEF	1.80	0.00	101.70	101.52	.20	0.00	?UNDEF	?UNDEF		
2	5.90	0.00	096.35	?UNDEF	?UNDEF	?UNDEF	.10	0.00	101.62	101.55	.20	0.00	?UNDEF	?UNDEF		
3	5.90	0.00	096.37	?UNDEF	?UNDEF	?UNDEF	.70	0.00	101.79	101.96	.20	0.00	?UNDEF	?UNDEF		
4	5.90	0.00	096.24	?UNDEF	?UNDEF	?UNDEF	29.10	0.00	101.64	102.62	.20	0.00	?UNDEF	?UNDEF		
5	6.00	0.00	096.22	?UNDEF	?UNDEF	?UNDEF	39.80	0.00	101.60	101.93	14.30	0.00	?UNDEF	?UNDEF		
6	5.90	0.00	096.18	?UNDEF	?UNDEF	?UNDEF	48.50	0.00	101.54	101.72	41.20	0.00	?UNDEF	?UNDEF		
7	5.80	0.00	096.00	?UNDEF	?UNDEF	?UNDEF	49.70	0.00	101.54	101.55	42.20	0.00	?UNDEF	?UNDEF		
8	5.90	0.00	096.10	?UNDEF	?UNDEF	?UNDEF	42.10	0.00	101.43	101.35	43.70	0.00	?UNDEF	?UNDEF		
9	5.90	0.00	096.01	?UNDEF	?UNDEF	?UNDEF	35.60	0.00	101.31	101.38	47.20	0.00	?UNDEF	?UNDEF		
10	6.00	0.00	096.08	?UNDEF	?UNDEF	?UNDEF	35.60	0.00	101.36	101.25	40.60	0.00	?UNDEF	?UNDEF		
11	5.90	0.00	096.32	?UNDEF	?UNDEF	?UNDEF	35.20	0.00	101.31	101.48	40.10	0.00	?UNDEF	?UNDEF		
12	5.90	0.00	096.42	?UNDEF	?UNDEF	?UNDEF	28.60	0.00	101.25	101.42	40.80	0.00	?UNDEF	?UNDEF		
13	5.90	0.00	096.28	?UNDEF	?UNDEF	?UNDEF	29.20	0.00	101.20	101.68	41.10	0.00	?UNDEF	?UNDEF		
14	6.00	0.00	096.34	?UNDEF	?UNDEF	?UNDEF	27.50	0.00	101.18	101.37	39.80	0.00	?UNDEF	?UNDEF		
15	5.90	0.00	096.17	?UNDEF	?UNDEF	?UNDEF	27.50	0.00	101.16	101.37	33.20	0.00	?UNDEF	?UNDEF		
16	5.90	0.00	095.97	?UNDEF	?UNDEF	?UNDEF	27.50	0.00	101.10	101.30	29.90	0.00	?UNDEF	?UNDEF		
17	5.90	0.00	095.78	?UNDEF	?UNDEF	?UNDEF	28.10	0.00	101.06	101.27	29.90	0.00	?UNDEF	?UNDEF		
18	5.90	0.00	095.75	?UNDEF	?UNDEF	?UNDEF	32.10	0.00	101.02	101.07	32.90	0.00	?UNDEF	?UNDEF		
19	6.00	0.00	095.78	?UNDEF	?UNDEF	?UNDEF	32.70	0.00	100.86	100.90	33.00	0.00	?UNDEF	?UNDEF		
20	5.90	0.00	095.69	?UNDEF	?UNDEF	?UNDEF	39.50	0.00	100.82	100.72	33.60	0.00	?UNDEF	?UNDEF		
21	5.90	0.00	095.53	?UNDEF	?UNDEF	?UNDEF	39.50	0.00	100.75	100.68	40.00	0.00	?UNDEF	?UNDEF		
22	5.90	0.00	095.61	?UNDEF	?UNDEF	?UNDEF	41.70	0.00	100.79	100.70	40.60	0.00	?UNDEF	?UNDEF		
23	5.90	0.00	095.50	?UNDEF	?UNDEF	?UNDEF	38.60	0.00	100.79	100.71	43.00	0.00	?UNDEF	?UNDEF		
24	6.00	0.00	095.48	?UNDEF	?UNDEF	?UNDEF	25.40	0.00	100.91	100.70	39.70	0.00	?UNDEF	?UNDEF		
	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT		
1	.40	0.00	?UNDEF	?UNDEF	8.30	0.00	100.53	099.97	108.40	0.00	101.61	101.43	100.96	101.73		
2	.30	0.00	?UNDEF	?UNDEF	8.70	0.00	100.51	099.84	112.80	0.00	101.65	101.46	101.00	101.61		
3	.30	0.00	?UNDEF	?UNDEF	8.60	0.00	100.40	099.85	102.30	0.00	101.76	101.44	100.94	101.62		
4	.30	0.00	?UNDEF	?UNDEF	8.60	0.00	100.43	099.87	123.20	0.00	101.73	101.38	101.08	101.56		
5	.80	0.00	?UNDEF	?UNDEF	10.10	0.00	100.36	099.78	128.00	0.00	101.76	101.39	101.08	101.41		
6	20.20	0.00	?UNDEF	?UNDEF	9.10	0.00	100.29	099.70	138.60	0.00	101.53	101.28	101.00	101.22		
7	40.60	0.00	?UNDEF	?UNDEF	23.50	0.00	100.21	100.07	141.70	0.00	101.46	101.10	100.92	101.21		
8	41.50	0.00	?UNDEF	?UNDEF	37.50	0.00	100.25	100.01	142.10	0.00	101.33	101.03	100.80	101.09		
9	41.60	0.00	?UNDEF	?UNDEF	38.70	0.00	100.12	099.95	141.20	0.00	101.39	100.94	100.70	100.89		
10	44.30	0.00	?UNDEF	?UNDEF	42.50	0.00	100.01	102.18	144.70	0.00	101.27	100.83	100.76	100.91		
11	44.10	0.00	?UNDEF	?UNDEF	43.40	0.00	099.93	103.88	143.40	0.00	101.64	100.95	100.84	101.10		
12	46.00	0.00	?UNDEF	?UNDEF	43.40	0.00	099.88	101.78	144.10	0.00	101.48	100.92	100.95	101.31		
13	43.20	0.00	?UNDEF	?UNDEF	43.10	0.00	099.91	100.84	141.90	0.00	101.60	101.04	101.08	101.60		
14	44.60	0.00	?UNDEF	?UNDEF	44.60	0.00	099.88	100.21	143.10	0.00	101.62	100.91	100.97	101.75		
15	42.70	0.00	?UNDEF	?UNDEF	44.40	0.00	100.04	099.88	144.30	0.00	101.58	101.07	100.96	101.84		
16	32.50	0.00	?UNDEF	?UNDEF	35.60	0.00	100.00	099.99	145.90	0.00	101.59	100.99	100.91	101.82		
17	30.20	0.00	?UNDEF	?UNDEF	34.30	0.00	099.93	099.83	124.80	0.00	101.51	100.95	100.74	101.77		
18	33.90	0.00	?UNDEF	?UNDEF	34.30	0.00	099.93	100.00	121.40	0.00	101.39	100.97	100.72	101.77		
19	34.00	0.00	?UNDEF	?UNDEF	34.40	0.00	099.88	099.69	120.10	0.00	101.40	100.93	100.62	101.50		
20	35.80	0.00	?UNDEF	?UNDEF	34.50	0.00	099.85	099.42	117.80	0.00	101.39	100.83	100.59	101.39		
21	40.50	0.00	?UNDEF	?UNDEF	41.30	0.00	099.84	099.28	121.40	0.00	101.30	100.74	100.50	101.20		
22	41.90	0.00	?UNDEF	?UNDEF	41.50	0.00	099.75	099.15	109.40	0.00	101.08	100.66	100.41	100.95		
23	41.10	0.00	?UNDEF	?UNDEF	43.50	0.00	099.74	099.01	93.70	0.00	101.03	100.47	100.22	100.84		
24	41.20	0.00	?UNDEF	?UNDEF	41.40	0.00	099.72	099.01	95.10	0.00	101.03	100.47	100.35	100.84		

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HOUR	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	6.00	0.00	095.57	?UNDEF	?UNDEF	?UNDEF	20.70	0.00	101.03	100.84	12.40	0.00	?UNDEF	?UNDEF
2	5.90	0.00	095.54	?UNDEF	?UNDEF	?UNDEF	20.40	0.00	100.88	100.80	13.90	0.00	?UNDEF	?UNDEF
3	5.90	0.00	095.55	?UNDEF	?UNDEF	?UNDEF	20.40	0.00	100.91	100.71	15.40	0.00	?UNDEF	?UNDEF
4	5.90	0.00	095.55	?UNDEF	?UNDEF	?UNDEF	20.40	0.00	100.76	100.69	12.40	0.00	?UNDEF	?UNDEF
5	6.00	0.00	095.54	?UNDEF	?UNDEF	?UNDEF	20.50	0.00	100.68	100.71	12.40	0.00	?UNDEF	?UNDEF
6	5.90	0.00	095.55	?UNDEF	?UNDEF	?UNDEF	27.10	0.00	100.70	100.77	14.60	0.00	?UNDEF	?UNDEF
7	5.90	0.00	095.59	?UNDEF	?UNDEF	?UNDEF	27.20	0.00	100.72	100.77	24.00	0.00	?UNDEF	?UNDEF
8	5.90	0.00	095.71	?UNDEF	?UNDEF	?UNDEF	29.90	0.00	100.70	100.76	25.20	0.00	?UNDEF	?UNDEF
9	5.90	0.00	095.74	?UNDEF	?UNDEF	?UNDEF	32.90	0.00	100.74	100.64	25.10	0.00	?UNDEF	?UNDEF
10	6.00	0.00	095.90	?UNDEF	?UNDEF	?UNDEF	33.20	0.00	100.86	100.67	25.20	0.00	?UNDEF	?UNDEF
11	5.80	0.00	096.09	?UNDEF	?UNDEF	?UNDEF	34.10	0.00	100.92	100.68	25.70	0.00	?UNDEF	?UNDEF
12	5.90	0.00	096.31	?UNDEF	?UNDEF	?UNDEF	34.90	0.00	101.01	100.80	29.60	0.00	?UNDEF	?UNDEF
13	5.90	0.00	096.42	?UNDEF	?UNDEF	?UNDEF	34.90	0.00	101.16	100.96	29.80	0.00	?UNDEF	?UNDEF
14	5.90	0.00	096.28	?UNDEF	?UNDEF	?UNDEF	34.90	0.00	101.21	101.18	29.80	0.00	?UNDEF	?UNDEF
15	6.00	0.00	096.34	?UNDEF	?UNDEF	?UNDEF	35.10	0.00	101.35	101.11	30.30	0.00	?UNDEF	?UNDEF
16	5.90	0.00	096.26	?UNDEF	?UNDEF	?UNDEF	35.80	0.00	101.43	101.09	31.00	0.00	?UNDEF	?UNDEF
17	5.90	0.00	096.28	?UNDEF	?UNDEF	?UNDEF	35.20	0.00	101.36	101.17	31.00	0.00	?UNDEF	?UNDEF
18	5.90	0.00	096.24	?UNDEF	?UNDEF	?UNDEF	39.80	0.00	101.47	101.24	47.80	0.00	?UNDEF	?UNDEF
19	5.90	0.00	096.28	?UNDEF	?UNDEF	?UNDEF	40.70	0.00	101.54	101.35	45.40	0.00	?UNDEF	?UNDEF
20	6.00	0.00	096.18	?UNDEF	?UNDEF	?UNDEF	31.60	0.00	101.61	101.36	48.40	0.00	?UNDEF	?UNDEF
21	5.90	0.00	096.25	?UNDEF	?UNDEF	?UNDEF	27.90	0.00	101.65	101.40	45.20	0.00	?UNDEF	?UNDEF
22	5.90	0.00	096.27	?UNDEF	?UNDEF	?UNDEF	21.50	0.00	101.85	101.63	29.00	0.00	?UNDEF	?UNDEF
23	5.90	0.00	096.31	?UNDEF	?UNDEF	?UNDEF	14.20	0.00	101.69	101.51	15.10	0.00	?UNDEF	?UNDEF
24	6.00	0.00	096.38	?UNDEF	?UNDEF	?UNDEF	.30	0.00	101.68	101.35	.20	0.00	?UNDEF	?UNDEF
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO	
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	12.80	0.00	?UNDEF	?UNDEF	9.90	0.00	099.26	099.23	82.60	0.00	099.93	100.16	099.41	100.26
2	12.60	0.00	?UNDEF	?UNDEF	11.20	0.00	099.28	099.10	83.00	0.00	099.97	100.17	099.48	100.28
3	12.50	0.00	?UNDEF	?UNDEF	9.70	0.00	099.29	098.84	82.80	0.00	099.95	100.18	099.46	100.18
4	12.70	0.00	?UNDEF	?UNDEF	9.70	0.00	099.29	098.60	92.70	0.00	099.96	100.08	099.57	100.21
5	12.40	0.00	?UNDEF	?UNDEF	9.70	0.00	099.29	098.64	134.60	0.00	099.72	100.09	099.65	100.12
6	12.90	0.00	?UNDEF	?UNDEF	10.30	0.00	099.38	098.66	165.30	0.00	100.07	100.09	099.73	100.14
7	25.10	0.00	?UNDEF	?UNDEF	24.20	0.00	099.41	098.96	169.50	0.00	100.18	100.29	099.66	100.03
8	26.70	0.00	?UNDEF	?UNDEF	23.30	0.00	099.39	098.98	166.70	0.00	100.17	100.28	099.70	100.05
9	25.20	0.00	?UNDEF	?UNDEF	23.20	0.00	099.46	099.20	154.10	0.00	100.36	100.31	099.96	100.21
10	25.40	0.00	?UNDEF	?UNDEF	26.70	0.00	099.59	099.78	148.70	0.00	100.54	100.50	100.16	100.40
11	26.80	0.00	?UNDEF	?UNDEF	25.20	0.00	099.79	099.70	145.10	0.00	100.73	100.67	100.48	100.75
12	28.30	0.00	?UNDEF	?UNDEF	27.00	0.00	099.92	103.08	142.50	0.00	100.96	100.96	100.62	101.18
13	27.90	0.00	?UNDEF	?UNDEF	25.10	0.00	100.19	106.42	144.80	0.00	101.13	101.07	100.76	101.51
14	28.00	0.00	?UNDEF	?UNDEF	24.90	0.00	100.30	104.78	146.20	0.00	101.42	101.34	100.75	101.95
15	28.10	0.00	?UNDEF	?UNDEF	26.60	0.00	100.29	102.54	147.60	0.00	101.63	101.56	100.83	102.18
16	28.10	0.00	?UNDEF	?UNDEF	26.70	0.00	100.27	104.84	150.50	0.00	101.73	101.02	100.95	102.44
17	30.10	0.00	?UNDEF	?UNDEF	25.40	0.00	100.36	105.07	154.20	0.00	102.09	101.20	100.86	102.53
18	44.40	0.00	?UNDEF	?UNDEF	39.80	0.00	100.43	104.60	159.40	0.00	101.95	101.51	100.79	102.45
19	45.10	0.00	?UNDEF	?UNDEF	41.60	0.00	100.62	104.93	161.80	0.00	102.15	101.61	100.87	102.40
20	44.90	0.00	?UNDEF	?UNDEF	40.90	0.00	100.62	101.66	149.10	0.00	102.05	101.44	100.87	102.24
21	46.00	0.00	?UNDEF	?UNDEF	40.90	0.00	100.66	100.65	147.20	0.00	101.52	101.48	101.03	102.20
22	45.80	0.00	?UNDEF	?UNDEF	40.90	0.00	100.68	100.54	145.80	0.00	101.56	101.39	100.94	102.09
23	28.50	0.00	?UNDEF	?UNDEF	40.70	0.00	100.68	100.30	112.70	0.00	101.52	101.44	101.14	101.93
24	14.30	0.00	?UNDEF	?UNDEF	22.70	0.00	100.55	100.11	97.60	0.00	101.45	101.44	101.12	101.93

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	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	4.00	0.00	109.31	?UNDEF	?UNDEF	?UNDEF	12.60	0.00	100.65	101.01	15.20	0.00	?UNDEF	?UNDEF
2	6.00	0.00	102.92	?UNDEF	?UNDEF	?UNDEF	11.60	0.00	100.65	100.85	12.20	0.00	?UNDEF	?UNDEF
3	5.90	0.00	096.47	?UNDEF	?UNDEF	?UNDEF	11.40	0.00	100.80	100.88	12.40	0.00	?UNDEF	?UNDEF
4	5.90	0.00	095.93	?UNDEF	?UNDEF	?UNDEF	11.70	0.00	100.78	100.84	12.20	0.00	?UNDEF	?UNDEF
5	5.90	0.00	095.93	?UNDEF	?UNDEF	?UNDEF	12.00	0.00	100.82	100.84	12.10	0.00	?UNDEF	?UNDEF
6	6.00	0.00	095.78	?UNDEF	?UNDEF	?UNDEF	16.20	0.00	100.67	100.75	12.30	0.00	?UNDEF	?UNDEF
7	5.90	0.00	095.64	?UNDEF	?UNDEF	?UNDEF	21.00	0.00	100.63	100.68	20.90	0.00	?UNDEF	?UNDEF
8	5.90	0.00	095.60	?UNDEF	?UNDEF	?UNDEF	24.00	0.00	100.76	100.64	24.40	0.00	?UNDEF	?UNDEF
9	5.90	0.00	095.72	?UNDEF	?UNDEF	?UNDEF	25.90	0.00	100.69	100.65	24.90	0.00	?UNDEF	?UNDEF
10	5.90	0.00	095.72	?UNDEF	?UNDEF	?UNDEF	26.50	0.00	100.72	100.89	26.80	0.00	?UNDEF	?UNDEF
11	6.00	0.00	095.88	?UNDEF	?UNDEF	?UNDEF	25.40	0.00	100.84	101.04	26.40	0.00	?UNDEF	?UNDEF
12	5.90	0.00	095.80	?UNDEF	?UNDEF	?UNDEF	22.80	0.00	100.78	100.93	21.30	0.00	?UNDEF	?UNDEF
13	5.90	0.00	095.97	?UNDEF	?UNDEF	?UNDEF	21.20	0.00	100.96	100.99	21.80	0.00	?UNDEF	?UNDEF
14	5.90	0.00	096.01	?UNDEF	?UNDEF	?UNDEF	18.30	0.00	101.00	101.01	18.60	0.00	?UNDEF	?UNDEF
15	6.00	0.00	096.16	?UNDEF	?UNDEF	?UNDEF	18.50	0.00	101.00	100.93	14.30	0.00	?UNDEF	?UNDEF
16	5.90	0.00	096.09	?UNDEF	?UNDEF	?UNDEF	19.40	0.00	101.06	100.95	18.50	0.00	?UNDEF	?UNDEF
17	5.90	0.00	095.79	?UNDEF	?UNDEF	?UNDEF	19.40	0.00	101.06	101.09	20.90	0.00	?UNDEF	?UNDEF
18	5.90	0.00	095.64	?UNDEF	?UNDEF	?UNDEF	21.60	0.00	101.06	101.09	22.10	0.00	?UNDEF	?UNDEF
19	5.90	0.00	095.79	?UNDEF	?UNDEF	?UNDEF	25.20	0.00	101.03	101.09	22.00	0.00	?UNDEF	?UNDEF
20	6.00	0.00	095.60	?UNDEF	?UNDEF	?UNDEF	39.40	0.00	101.06	100.99	37.80	0.00	?UNDEF	?UNDEF
21	5.90	0.00	095.62	?UNDEF	?UNDEF	?UNDEF	42.50	0.00	101.06	101.15	45.70	0.00	?UNDEF	?UNDEF
22	5.90	0.00	095.59	?UNDEF	?UNDEF	?UNDEF	25.60	0.00	101.04	100.99	45.80	0.00	?UNDEF	?UNDEF
23	5.90	0.00	095.57	?UNDEF	?UNDEF	?UNDEF	21.50	0.00	101.02	101.07	34.50	0.00	?UNDEF	?UNDEF
24	5.90	0.00	095.54	?UNDEF	?UNDEF	?UNDEF	19.70	0.00	101.03	100.83	15.60	0.00	?UNDEF	?UNDEF
	LOWER MONUMENTAL			ICE HARBOR			MCNARY			PASCO				
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT		
1	11.90	0.00	?UNDEF ?UNDEF	11.70	0.00	099.12 098.68	93.20	0.00	099.64	099.97	099.40	100.30		
2	13.40	0.00	?UNDEF ?UNDEF	9.80	0.00	099.05 098.54	108.40	0.00	099.51	099.99	099.36	100.29		
3	11.90	0.00	?UNDEF ?UNDEF	9.70	0.00	099.26 098.55	117.00	0.00	099.67	100.00	099.56	100.12		
4	12.00	0.00	?UNDEF ?UNDEF	9.70	0.00	099.11 098.55	127.50	0.00	099.51	099.97	099.50	100.14		
5	13.60	0.00	?UNDEF ?UNDEF	11.30	0.00	099.09 098.68	123.20	0.00	099.46	099.83	099.35	099.97		
6	12.30	0.00	?UNDEF ?UNDEF	9.80	0.00	099.09 098.64	140.30	0.00	099.59	099.84	099.33	100.00		
7	20.80	0.00	?UNDEF ?UNDEF	13.00	0.00	099.08 098.48	148.50	0.00	099.62	099.84	099.35	099.80		
8	24.00	0.00	?UNDEF ?UNDEF	24.90	0.00	098.99 098.54	139.90	0.00	099.70	099.76	099.30	099.74		
9	24.00	0.00	?UNDEF ?UNDEF	26.10	0.00	098.96 099.24	125.80	0.00	099.40	099.90	099.41	099.70		
10	25.40	0.00	?UNDEF ?UNDEF	26.10	0.00	099.07 099.13	125.80	0.00	099.91	100.00	099.54	099.84		
11	24.20	0.00	?UNDEF ?UNDEF	26.30	0.00	099.21 099.27	123.90	0.00	100.07	100.16	099.82	100.13		
12	20.00	0.00	?UNDEF ?UNDEF	18.70	0.00	099.25 099.34	124.20	0.00	100.26	100.21	100.01	100.43		
13	13.10	0.00	?UNDEF ?UNDEF	15.20	0.00	099.32 100.18	125.00	0.00	100.41	100.41	100.03	100.59		
14	15.20	0.00	?UNDEF ?UNDEF	14.30	0.00	099.34 101.84	128.60	0.00	100.55	100.39	099.90	100.87		
15	11.90	0.00	?UNDEF ?UNDEF	12.90	0.00	099.40 102.82	123.70	0.00	100.29	100.42	099.83	101.08		
16	18.70	0.00	?UNDEF ?UNDEF	13.30	0.00	099.40 103.01	124.40	0.00	100.36	100.45	099.87	101.24		
17	20.40	0.00	?UNDEF ?UNDEF	13.10	0.00	099.41 102.11	127.30	0.00	100.40	100.46	099.71	101.26		
18	20.30	0.00	?UNDEF ?UNDEF	13.10	0.00	099.43 102.62	131.90	0.00	100.14	100.51	099.63	101.11		
19	22.60	0.00	?UNDEF ?UNDEF	13.90	0.00	099.29 102.75	129.00	0.00	100.14	100.51	099.63	100.99		
20	35.80	0.00	?UNDEF ?UNDEF	27.10	0.00	099.42 102.17	146.30	0.00	100.00	100.38	099.76	100.72		
21	41.60	0.00	?UNDEF ?UNDEF	34.00	0.00	099.43 100.81	147.10	0.00	099.96	100.21	099.74	100.71		
22	41.40	0.00	?UNDEF ?UNDEF	35.60	0.00	099.41 099.49	136.60	0.00	099.96	100.18	099.62	100.53		
23	31.00	0.00	?UNDEF ?UNDEF	24.30	0.00	099.38 098.94	103.30	0.00	099.95	100.13	099.56	100.39		
24	17.50	0.00	?UNDEF ?UNDEF	12.70	0.00	099.24 099.10	98.00	0.00	100.09	100.16	099.46	100.39		

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	DWORSHAK			STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.30	0.00	107.33	?UNDEF	?UNDEF	?UNDEF	12.10	0.00	101.58	101.73	12.10	0.00	?UNDEF	?UNDEF
2	1.30	0.00	107.42	?UNDEF	?UNDEF	?UNDEF	12.10	0.00	101.40	101.70	12.10	0.00	?UNDEF	?UNDEF
3	1.30	0.00	107.35	?UNDEF	?UNDEF	?UNDEF	12.10	0.00	101.40	101.66	12.20	0.00	?UNDEF	?UNDEF
4	1.30	0.00	107.45	?UNDEF	?UNDEF	?UNDEF	12.30	0.00	101.38	101.33	12.30	0.00	?UNDEF	?UNDEF
5	1.30	0.00	107.42	?UNDEF	?UNDEF	?UNDEF	12.10	0.00	100.94	101.30	12.30	0.00	?UNDEF	?UNDEF
6	1.30	0.00	107.41	?UNDEF	?UNDEF	?UNDEF	13.90	0.00	101.14	101.22	12.30	0.00	?UNDEF	?UNDEF
7	1.30	0.00	107.34	?UNDEF	?UNDEF	?UNDEF	14.20	0.00	101.24	101.19	14.10	0.00	?UNDEF	?UNDEF
8	1.30	0.00	107.43	?UNDEF	?UNDEF	?UNDEF	21.40	0.00	101.30	101.11	21.40	0.00	?UNDEF	?UNDEF
9	1.30	0.00	107.64	?UNDEF	?UNDEF	?UNDEF	27.40	0.00	101.41	101.32	27.70	0.00	?UNDEF	?UNDEF
10	1.30	0.00	107.88	?UNDEF	?UNDEF	?UNDEF	27.70	0.00	101.33	101.20	28.00	0.00	?UNDEF	?UNDEF
11	1.30	0.00	108.00	?UNDEF	?UNDEF	?UNDEF	27.80	0.00	101.39	101.17	28.00	0.00	?UNDEF	?UNDEF
12	1.30	0.00	108.33	?UNDEF	?UNDEF	?UNDEF	27.50	0.00	101.42	101.23	28.00	0.00	?UNDEF	?UNDEF
13	1.30	0.00	108.63	?UNDEF	?UNDEF	?UNDEF	22.30	0.00	101.46	101.27	28.10	0.00	?UNDEF	?UNDEF
14	1.30	0.00	108.63	?UNDEF	?UNDEF	?UNDEF	21.20	0.00	101.59	101.24	31.00	0.00	?UNDEF	?UNDEF
15	1.30	0.00	108.72	?UNDEF	?UNDEF	?UNDEF	17.60	0.00	101.43	101.27	23.10	0.00	?UNDEF	?UNDEF
16	1.30	0.00	108.39	?UNDEF	?UNDEF	?UNDEF	16.20	0.00	101.43	101.22	17.60	0.00	?UNDEF	?UNDEF
17	1.30	0.00	108.06	?UNDEF	?UNDEF	?UNDEF	17.80	0.00	101.41	101.03	17.30	0.00	?UNDEF	?UNDEF
18	1.30	0.00	107.60	?UNDEF	?UNDEF	?UNDEF	16.10	0.00	101.37	101.15	17.40	0.00	?UNDEF	?UNDEF
19	1.30	0.00	108.06	?UNDEF	?UNDEF	?UNDEF	16.30	0.00	101.34	101.12	17.10	0.00	?UNDEF	?UNDEF
20	1.30	0.00	107.39	?UNDEF	?UNDEF	?UNDEF	16.10	0.00	101.28	101.08	17.20	0.00	?UNDEF	?UNDEF
21	1.30	0.00	107.23	?UNDEF	?UNDEF	?UNDEF	17.70	0.00	101.27	101.08	18.70	0.00	?UNDEF	?UNDEF
22	1.30	0.00	107.22	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	101.12	100.91	18.60	0.00	?UNDEF	?UNDEF
23	1.30	0.00	107.17	?UNDEF	?UNDEF	?UNDEF	13.90	0.00	101.11	101.04	17.00	0.00	?UNDEF	?UNDEF
24	1.80	0.00	107.19	?UNDEF	?UNDEF	?UNDEF	12.90	0.00	100.83	101.01	12.30	0.00	?UNDEF	?UNDEF

HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO	
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	15.00	0.00	?UNDEF	?UNDEF	12.90	0.00	099.78	099.16	79.20	0.00	100.26	100.25	099.76	100.48
2	15.20	0.00	?UNDEF	?UNDEF	18.30	0.00	099.68	098.99	79.00	0.00	100.23	100.18	099.71	100.30
3	15.10	0.00	?UNDEF	?UNDEF	18.40	0.00	099.81	098.95	78.30	0.00	100.15	100.13	099.67	100.29
4	15.10	0.00	?UNDEF	?UNDEF	18.60	0.00	099.75	098.94	115.80	0.00	100.01	100.24	099.66	100.25
5	15.00	0.00	?UNDEF	?UNDEF	18.40	0.00	099.70	098.97	119.70	0.00	099.96	100.20	099.71	100.04
6	15.40	0.00	?UNDEF	?UNDEF	18.50	0.00	099.63	098.95	120.60	0.00	100.01	100.14	099.63	100.00
7	15.20	0.00	?UNDEF	?UNDEF	18.30	0.00	099.58	098.89	146.40	0.00	099.95	100.05	099.63	100.08
8	21.10	0.00	?UNDEF	?UNDEF	20.40	0.00	099.50	098.85	140.10	0.00	099.74	100.04	099.57	100.03
9	28.40	0.00	?UNDEF	?UNDEF	27.60	0.00	099.47	098.99	134.80	0.00	099.84	099.97	099.62	099.96
10	28.70	0.00	?UNDEF	?UNDEF	27.30	0.00	099.38	099.07	118.50	0.00	099.82	100.03	099.67	100.04
11	32.70	0.00	?UNDEF	?UNDEF	29.10	0.00	099.33	099.52	100.80	0.00	099.86	100.00	099.91	100.25
12	31.40	0.00	?UNDEF	?UNDEF	29.20	0.00	099.36	100.46	99.80	0.00	100.17	100.18	100.08	100.58
13	31.40	0.00	?UNDEF	?UNDEF	29.10	0.00	099.42	101.95	99.90	0.00	100.24	100.20	100.12	100.84
14	31.90	0.00	?UNDEF	?UNDEF	29.30	0.00	099.42	100.50	100.30	0.00	100.66	100.21	100.14	101.15
15	28.10	0.00	?UNDEF	?UNDEF	29.40	0.00	099.41	102.60	107.40	0.00	100.50	100.18	100.13	101.25
16	27.60	0.00	?UNDEF	?UNDEF	29.90	0.00	099.39	105.80	110.50	0.00	100.36	100.18	099.99	101.38
17	27.60	0.00	?UNDEF	?UNDEF	29.40	0.00	099.39	102.09	111.00	0.00	100.34	100.18	099.84	101.52
18	27.60	0.00	?UNDEF	?UNDEF	29.50	0.00	099.36	101.15	124.30	0.00	100.33	100.12	099.65	101.37
19	27.80	0.00	?UNDEF	?UNDEF	33.90	0.00	099.37	099.96	122.90	0.00	100.32	100.13	099.50	101.34
20	25.70	0.00	?UNDEF	?UNDEF	35.80	0.00	099.33	099.16	121.80	0.00	100.16	100.09	099.53	101.17
21	24.80	0.00	?UNDEF	?UNDEF	34.10	0.00	099.33	098.85	117.00	0.00	099.93	100.12	099.50	101.01
22	21.30	0.00	?UNDEF	?UNDEF	27.80	0.00	099.28	098.84	95.60	0.00	099.83	100.07	099.45	100.82
23	17.40	0.00	?UNDEF	?UNDEF	24.90	0.00	099.13	098.98	90.90	0.00	099.84	100.01	099.46	100.57
24	12.20	0.00	?UNDEF	?UNDEF	12.20	0.00	099.16	098.87	94.70	0.00	099.68	100.03	099.46	100.57

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HOUR	DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.30	0.00	107.81	?UNDEF	?UNDEF	?UNDEF	14.20	0.00	101.92	102.01	11.50	0.00	?UNDEF	?UNDEF	?UNDEF
2	1.30	0.00	107.60	?UNDEF	?UNDEF	?UNDEF	13.90	0.00	101.87	101.83	11.40	0.00	?UNDEF	?UNDEF	?UNDEF
3	1.30	0.00	107.61	?UNDEF	?UNDEF	?UNDEF	14.20	0.00	102.06	101.81	11.40	0.00	?UNDEF	?UNDEF	?UNDEF
4	1.30	0.00	107.71	?UNDEF	?UNDEF	?UNDEF	13.20	0.00	102.03	101.78	11.40	0.00	?UNDEF	?UNDEF	?UNDEF
5	1.30	0.00	107.72	?UNDEF	?UNDEF	?UNDEF	13.30	0.00	102.00	101.81	12.00	0.00	?UNDEF	?UNDEF	?UNDEF
6	1.30	0.00	107.66	?UNDEF	?UNDEF	?UNDEF	20.80	0.00	101.83	101.87	13.10	0.00	?UNDEF	?UNDEF	?UNDEF
7	1.30	0.00	107.48	?UNDEF	?UNDEF	?UNDEF	21.20	0.00	101.68	101.71	13.30	0.00	?UNDEF	?UNDEF	?UNDEF
8	1.30	0.00	107.56	?UNDEF	?UNDEF	?UNDEF	21.50	0.00	101.59	101.71	12.80	0.00	?UNDEF	?UNDEF	?UNDEF
9	1.30	0.00	107.68	?UNDEF	?UNDEF	?UNDEF	21.20	0.00	101.73	101.66	12.80	0.00	?UNDEF	?UNDEF	?UNDEF
10	1.30	0.00	107.97	?UNDEF	?UNDEF	?UNDEF	20.90	0.00	101.69	101.76	12.70	0.00	?UNDEF	?UNDEF	?UNDEF
11	1.30	0.00	108.13	?UNDEF	?UNDEF	?UNDEF	20.60	0.00	102.00	101.93	12.90	0.00	?UNDEF	?UNDEF	?UNDEF
12	1.30	0.00	108.36	?UNDEF	?UNDEF	?UNDEF	20.50	0.00	102.08	101.98	15.80	0.00	?UNDEF	?UNDEF	?UNDEF
13	1.30	0.00	108.72	?UNDEF	?UNDEF	?UNDEF	20.70	0.00	102.11	102.16	13.00	0.00	?UNDEF	?UNDEF	?UNDEF
14	1.30	0.00	109.04	?UNDEF	?UNDEF	?UNDEF	20.30	0.00	102.11	102.14	13.00	0.00	?UNDEF	?UNDEF	?UNDEF
15	1.30	0.00	109.22	?UNDEF	?UNDEF	?UNDEF	20.40	0.00	102.23	102.01	13.00	0.00	?UNDEF	?UNDEF	?UNDEF
16	1.30	0.00	109.01	?UNDEF	?UNDEF	?UNDEF	20.30	0.00	102.23	102.01	16.00	0.00	?UNDEF	?UNDEF	?UNDEF
17	1.30	0.00	108.55	?UNDEF	?UNDEF	?UNDEF	22.50	0.00	102.18	102.25	15.10	0.00	?UNDEF	?UNDEF	?UNDEF
18	1.30	0.00	108.10	?UNDEF	?UNDEF	?UNDEF	21.50	0.00	101.96	102.05	20.50	0.00	?UNDEF	?UNDEF	?UNDEF
19	1.30	0.00	108.55	?UNDEF	?UNDEF	?UNDEF	21.10	0.00	101.94	101.99	20.50	0.00	?UNDEF	?UNDEF	?UNDEF
20	1.30	0.00	107.56	?UNDEF	?UNDEF	?UNDEF	14.20	0.00	101.89	101.99	12.60	0.00	?UNDEF	?UNDEF	?UNDEF
21	1.30	0.00	107.47	?UNDEF	?UNDEF	?UNDEF	12.10	0.00	101.85	101.91	12.30	0.00	?UNDEF	?UNDEF	?UNDEF
22	1.30	0.00	107.55	?UNDEF	?UNDEF	?UNDEF	12.30	0.00	101.93	101.85	12.30	0.00	?UNDEF	?UNDEF	?UNDEF
23	1.30	0.00	107.52	?UNDEF	?UNDEF	?UNDEF	12.10	0.00	101.90	101.81	12.50	0.00	?UNDEF	?UNDEF	?UNDEF
24	1.30	0.00	107.33	?UNDEF	?UNDEF	?UNDEF	12.10	0.00	101.60	101.77	12.30	0.00	?UNDEF	?UNDEF	?UNDEF

HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO	
	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	11.60	0.00	?UNDEF	?UNDEF	10.70	0.00	100.41	099.62	86.20	0.00	100.63	101.10	100.37	100.37
2	11.60	0.00	?UNDEF	?UNDEF	9.00	0.00	100.37	099.58	86.70	0.00	100.56	101.07	100.48	100.36
3	11.60	0.00	?UNDEF	?UNDEF	9.00	0.00	100.40	099.56	95.40	0.00	100.56	101.07	100.48	100.37
4	11.60	0.00	?UNDEF	?UNDEF	9.20	0.00	100.23	099.55	104.00	0.00	100.57	101.05	100.73	100.20
5	12.30	0.00	?UNDEF	?UNDEF	9.10	0.00	100.24	099.53	106.40	0.00	100.69	100.91	100.59	100.19
6	13.20	0.00	?UNDEF	?UNDEF	12.50	0.00	100.20	099.54	135.00	0.00	100.69	100.90	100.57	100.19
7	13.20	0.00	?UNDEF	?UNDEF	12.70	0.00	100.29	099.76	137.30	0.00	100.63	100.83	100.52	100.15
8	13.20	0.00	?UNDEF	?UNDEF	12.60	0.00	100.21	099.70	139.90	0.00	100.44	100.79	100.33	099.99
9	14.60	0.00	?UNDEF	?UNDEF	14.40	0.00	100.21	099.55	137.10	0.00	100.57	100.79	100.33	100.09
10	13.10	0.00	?UNDEF	?UNDEF	14.50	0.00	100.33	099.71	124.80	0.00	100.59	100.90	100.48	100.05
11	13.10	0.00	?UNDEF	?UNDEF	12.60	0.00	100.46	099.71	123.10	0.00	100.68	100.89	100.55	100.35
12	13.10	0.00	?UNDEF	?UNDEF	12.40	0.00	100.46	099.86	123.50	0.00	100.85	100.95	100.74	100.44
13	14.60	0.00	?UNDEF	?UNDEF	13.70	0.00	100.33	100.46	112.10	0.00	100.76	101.07	100.77	100.89
14	14.80	0.00	?UNDEF	?UNDEF	12.70	0.00	100.36	101.05	110.00	0.00	101.04	101.13	100.91	101.18
15	13.10	0.00	?UNDEF	?UNDEF	12.60	0.00	100.37	101.03	106.40	0.00	101.04	101.24	100.92	101.45
16	13.10	0.00	?UNDEF	?UNDEF	12.70	0.00	100.33	100.57	108.90	0.00	100.98	101.18	100.82	101.60
17	13.30	0.00	?UNDEF	?UNDEF	13.10	0.00	100.31	100.28	111.10	0.00	100.96	101.11	100.67	101.62
18	20.40	0.00	?UNDEF	?UNDEF	20.10	0.00	100.25	100.49	135.40	0.00	100.88	101.06	100.45	101.58
19	20.60	0.00	?UNDEF	?UNDEF	21.70	0.00	100.09	100.05	137.70	0.00	100.84	100.99	100.28	101.43
20	13.30	0.00	?UNDEF	?UNDEF	12.80	0.00	100.05	099.65	116.80	0.00	100.74	100.95	100.25	101.25
21	14.50	0.00	?UNDEF	?UNDEF	12.60	0.00	099.99	099.45	115.40	0.00	100.70	100.76	100.03	101.03
22	15.40	0.00	?UNDEF	?UNDEF	12.90	0.00	099.99	099.26	109.50	0.00	100.68	100.65	100.03	100.99
23	15.00	0.00	?UNDEF	?UNDEF	12.70	0.00	099.83	099.38	91.50	0.00	100.52	100.61	100.01	100.85
24	15.20	0.00	?UNDEF	?UNDEF	12.80	0.00	099.78	099.33	93.30	0.00	100.34	100.43	099.92	100.85

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HOUR	DWRSHAK			STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE %SAT	PECK %SAT	LEWISTON %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.
1	1.30	0.00	107.66	?UNDEF	?UNDEF	?UNDEF	18.80	0.00	101.66	101.57	12.30	0.00	?UNDEF	?UNDEF
2	1.30	0.00	107.72	?UNDEF	?UNDEF	?UNDEF	19.10	0.00	101.70	101.63	12.20	0.00	?UNDEF	?UNDEF
3	1.30	0.00	107.68	?UNDEF	?UNDEF	?UNDEF	18.70	0.00	101.80	101.87	13.70	0.00	?UNDEF	?UNDEF
4	1.30	0.00	107.76	?UNDEF	?UNDEF	?UNDEF	18.70	0.00	101.81	101.76	13.70	0.00	?UNDEF	?UNDEF
5	1.30	0.00	107.62	?UNDEF	?UNDEF	?UNDEF	18.70	0.00	101.86	101.86	12.20	0.00	?UNDEF	?UNDEF
6	1.30	0.00	107.66	?UNDEF	?UNDEF	?UNDEF	18.70	0.00	101.95	101.86	12.60	0.00	?UNDEF	?UNDEF
7	1.30	0.00	107.66	?UNDEF	?UNDEF	?UNDEF	19.50	0.00	101.93	101.91	18.70	0.00	?UNDEF	?UNDEF
8	1.30	0.00	107.84	?UNDEF	?UNDEF	?UNDEF	25.30	0.00	101.96	101.86	25.60	0.00	?UNDEF	?UNDEF
9	1.30	0.00	107.99	?UNDEF	?UNDEF	?UNDEF	25.40	0.00	101.95	101.91	25.80	0.00	?UNDEF	?UNDEF
10	1.30	0.00	108.33	?UNDEF	?UNDEF	?UNDEF	25.10	0.00	102.11	101.90	25.70	0.00	?UNDEF	?UNDEF
11	1.30	0.00	108.79	?UNDEF	?UNDEF	?UNDEF	25.20	0.00	102.22	102.00	25.70	0.00	?UNDEF	?UNDEF
12	1.30	0.00	109.06	?UNDEF	?UNDEF	?UNDEF	25.60	0.00	102.26	102.08	25.60	0.00	?UNDEF	?UNDEF
13	1.30	0.00	109.14	?UNDEF	?UNDEF	?UNDEF	25.10	0.00	102.35	102.16	25.60	0.00	?UNDEF	?UNDEF
14	1.30	0.00	109.18	?UNDEF	?UNDEF	?UNDEF	25.10	0.00	102.54	102.18	25.60	0.00	?UNDEF	?UNDEF
15	1.30	0.00	109.09	?UNDEF	?UNDEF	?UNDEF	22.70	0.00	102.40	102.18	25.60	0.00	?UNDEF	?UNDEF
16	1.30	0.00	108.92	?UNDEF	?UNDEF	?UNDEF	18.00	0.00	102.49	102.39	26.10	0.00	?UNDEF	?UNDEF
17	1.30	0.00	108.46	?UNDEF	?UNDEF	?UNDEF	17.80	0.00	102.32	102.35	26.20	0.00	?UNDEF	?UNDEF
18	1.30	0.00	108.14	?UNDEF	?UNDEF	?UNDEF	25.60	0.00	102.29	102.34	35.50	0.00	?UNDEF	?UNDEF
19	1.30	0.00	108.46	?UNDEF	?UNDEF	?UNDEF	29.90	0.00	102.30	102.32	44.40	0.00	?UNDEF	?UNDEF
20	1.30	0.00	107.94	?UNDEF	?UNDEF	?UNDEF	21.00	0.00	102.30	102.35	22.80	0.00	?UNDEF	?UNDEF
21	1.30	0.00	107.78	?UNDEF	?UNDEF	?UNDEF	21.30	0.00	102.29	102.88	21.80	0.00	?UNDEF	?UNDEF
22	1.30	0.00	107.75	?UNDEF	?UNDEF	?UNDEF	20.90	0.00	102.26	102.46	21.50	0.00	?UNDEF	?UNDEF
23	1.30	0.00	107.72	?UNDEF	?UNDEF	?UNDEF	17.80	0.00	102.26	102.17	12.80	0.00	?UNDEF	?UNDEF
24	1.30	0.00	107.69	?UNDEF	?UNDEF	?UNDEF	17.50	0.00	102.06	102.01	12.20	0.00	?UNDEF	?UNDEF

HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO	
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	11.60	0.00	?UNDEF	?UNDEF	9.00	0.00	099.96	099.13	103.40	0.00	100.28	100.25	099.88	100.05
2	11.60	0.00	?UNDEF	?UNDEF	9.00	0.00	100.00	099.19	70.90	0.00	100.31	100.30	099.95	100.12
3	11.60	0.00	?UNDEF	?UNDEF	9.00	0.00	100.09	099.13	77.70	0.00	100.39	100.40	099.96	100.19
4	11.60	0.00	?UNDEF	?UNDEF	10.60	0.00	100.11	099.16	94.20	0.00	100.41	100.26	100.08	100.09
5	11.60	0.00	?UNDEF	?UNDEF	9.00	0.00	100.16	099.47	113.40	0.00	100.45	100.44	100.11	100.15
6	12.00	0.00	?UNDEF	?UNDEF	9.60	0.00	100.16	099.91	137.70	0.00	100.65	100.50	100.17	100.03
7	18.50	0.00	?UNDEF	?UNDEF	21.60	0.00	100.21	099.66	147.70	0.00	100.66	100.41	100.21	100.07
8	28.30	0.00	?UNDEF	?UNDEF	27.10	0.00	100.21	099.97	150.30	0.00	100.66	100.38	100.32	099.92
9	27.30	0.00	?UNDEF	?UNDEF	28.70	0.00	100.23	099.83	152.40	0.00	100.78	100.52	100.28	099.97
10	27.10	0.00	?UNDEF	?UNDEF	27.60	0.00	100.27	099.76	147.70	0.00	100.86	100.60	100.49	100.15
11	26.90	0.00	?UNDEF	?UNDEF	28.60	0.00	100.32	099.97	146.70	0.00	000.00	100.62	100.52	100.31
12	26.80	0.00	?UNDEF	?UNDEF	27.10	0.00	100.37	100.46	143.00	0.00	101.12	100.81	100.77	100.63
13	27.30	0.00	?UNDEF	?UNDEF	27.00	0.00	100.43	100.32	144.00	0.00	101.31	100.83	100.75	100.80
14	27.90	0.00	?UNDEF	?UNDEF	27.00	0.00	100.48	100.61	142.30	0.00	*****	101.03	100.86	100.80
15	27.50	0.00	?UNDEF	?UNDEF	27.10	0.00	100.49	100.36	136.50	0.00	001.47	101.06	100.70	100.99
16	27.20	0.00	?UNDEF	?UNDEF	27.60	0.00	100.52	100.24	136.40	0.00	101.28	101.06	100.75	101.01
17	27.50	0.00	?UNDEF	?UNDEF	27.60	0.00	100.51	100.08	128.30	0.00	100.96	101.06	100.71	101.11
18	36.20	0.00	?UNDEF	?UNDEF	36.20	0.00	100.45	099.91	149.80	0.00	101.08	101.14	100.56	100.99
19	43.80	0.00	?UNDEF	?UNDEF	45.80	0.00	100.48	099.95	161.60	0.00	100.77	101.27	100.66	100.96
20	40.60	0.00	?UNDEF	?UNDEF	46.30	0.00	100.47	099.92	132.40	0.00	100.76	101.27	100.67	100.83
21	26.60	0.00	?UNDEF	?UNDEF	41.90	0.00	100.45	099.78	128.60	0.00	100.63	101.13	100.62	100.83
22	21.00	0.00	?UNDEF	?UNDEF	25.40	0.00	100.43	099.74	97.70	0.00	100.61	101.10	100.49	100.69
23	20.70	0.00	?UNDEF	?UNDEF	20.60	0.00	100.43	099.75	84.50	0.00	100.59	101.09	100.52	100.68
24	13.40	0.00	?UNDEF	?UNDEF	12.20	0.00	100.43	099.75	84.80	0.00	100.59	101.10	100.48	100.68

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	DWORSHAK			STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.30	0.00	107.25	?UNDEF	?UNDEF	?UNDEF	11.70	0.00	101.36	101.07	12.10	0.00	?UNDEF	?UNDEF
2	1.30	0.00	107.28	?UNDEF	?UNDEF	?UNDEF	11.70	0.00	101.38	100.95	12.20	0.00	?UNDEF	?UNDEF
3	1.30	0.00	107.28	?UNDEF	?UNDEF	?UNDEF	18.40	0.00	101.32	100.97	12.40	0.00	?UNDEF	?UNDEF
4	1.30	0.00	107.32	?UNDEF	?UNDEF	?UNDEF	26.90	0.00	101.48	101.13	20.40	0.00	?UNDEF	?UNDEF
5	1.30	0.00	107.34	?UNDEF	?UNDEF	?UNDEF	27.40	0.00	101.51	101.01	20.70	0.00	?UNDEF	?UNDEF
6	1.30	0.00	107.37	?UNDEF	?UNDEF	?UNDEF	27.50	0.00	101.49	100.98	21.30	0.00	?UNDEF	?UNDEF
7	1.30	0.00	107.34	?UNDEF	?UNDEF	?UNDEF	27.30	0.00	101.44	100.94	21.70	0.00	?UNDEF	?UNDEF
8	1.30	0.00	107.31	?UNDEF	?UNDEF	?UNDEF	27.30	0.00	101.43	100.91	21.40	0.00	?UNDEF	?UNDEF
9	1.30	0.00	107.44	?UNDEF	?UNDEF	?UNDEF	29.90	0.00	101.38	100.92	21.40	0.00	?UNDEF	?UNDEF
10	1.30	0.00	107.77	?UNDEF	?UNDEF	?UNDEF	30.40	0.00	101.41	100.91	21.80	0.00	?UNDEF	?UNDEF
11	1.30	0.00	108.10	?UNDEF	?UNDEF	?UNDEF	30.90	0.00	101.56	100.97	26.20	0.00	?UNDEF	?UNDEF
12	1.30	0.00	108.43	?UNDEF	?UNDEF	?UNDEF	30.30	0.00	101.59	101.02	26.30	0.00	?UNDEF	?UNDEF
13	1.30	0.00	108.64	?UNDEF	?UNDEF	?UNDEF	27.80	0.00	101.62	101.32	26.50	0.00	?UNDEF	?UNDEF
14	1.30	0.00	108.83	?UNDEF	?UNDEF	?UNDEF	25.20	0.00	101.64	101.19	25.70	0.00	?UNDEF	?UNDEF
15	1.30	0.00	108.74	?UNDEF	?UNDEF	?UNDEF	27.50	0.00	101.63	101.17	26.50	0.00	?UNDEF	?UNDEF
16	1.30	0.00	108.61	?UNDEF	?UNDEF	?UNDEF	28.20	0.00	101.78	101.19	26.70	0.00	?UNDEF	?UNDEF
17	1.30	0.00	108.29	?UNDEF	?UNDEF	?UNDEF	27.70	0.00	101.78	101.17	29.70	0.00	?UNDEF	?UNDEF
18	1.30	0.00	107.88	?UNDEF	?UNDEF	?UNDEF	30.10	0.00	101.79	101.19	28.20	0.00	?UNDEF	?UNDEF
19	1.30	0.00	108.29	?UNDEF	?UNDEF	?UNDEF	30.10	0.00	101.66	101.19	27.90	0.00	?UNDEF	?UNDEF
20	1.30	0.00	107.63	?UNDEF	?UNDEF	?UNDEF	23.10	0.00	101.63	101.18	27.50	0.00	?UNDEF	?UNDEF
21	1.30	0.00	107.60	?UNDEF	?UNDEF	?UNDEF	19.60	0.00	101.63	101.19	19.30	0.00	?UNDEF	?UNDEF
22	1.30	0.00	107.60	?UNDEF	?UNDEF	?UNDEF	18.80	0.00	101.67	101.19	12.40	0.00	?UNDEF	?UNDEF
23	1.30	0.00	107.61	?UNDEF	?UNDEF	?UNDEF	20.50	0.00	101.68	101.64	12.20	0.00	?UNDEF	?UNDEF
24	1.30	0.00	107.64	?UNDEF	?UNDEF	?UNDEF	18.80	0.00	101.60	101.79	12.30	0.00	?UNDEF	?UNDEF
	LOWER MONUMENTAL			ICE HARBOR			MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	11.50	0.00	?UNDEF	?UNDEF	9.10	0.00	099.79	099.12	119.20	0.00	100.95	101.19	100.59	100.24
2	11.50	0.00	?UNDEF	?UNDEF	9.00	0.00	099.80	099.12	121.10	0.00	100.99	101.27	100.62	100.30
3	11.60	0.00	?UNDEF	?UNDEF	9.30	0.00	099.81	099.16	120.30	0.00	101.01	101.11	100.49	100.19
4	19.80	0.00	?UNDEF	?UNDEF	18.30	0.00	099.87	099.53	131.90	0.00	100.89	101.12	100.75	100.09
5	19.00	0.00	?UNDEF	?UNDEF	18.10	0.00	099.87	099.41	142.20	0.00	100.74	100.99	100.62	100.04
6	18.40	0.00	?UNDEF	?UNDEF	18.10	0.00	099.74	099.29	161.90	0.00	100.74	100.86	100.50	099.89
7	19.40	0.00	?UNDEF	?UNDEF	19.50	0.00	099.68	099.25	175.80	0.00	100.61	100.84	100.34	099.79
8	20.70	0.00	?UNDEF	?UNDEF	19.00	0.00	099.68	099.10	180.20	0.00	100.53	100.65	100.30	099.74
9	21.10	0.00	?UNDEF	?UNDEF	19.00	0.00	099.67	099.20	167.70	0.00	100.37	100.65	100.25	099.72
10	22.40	0.00	?UNDEF	?UNDEF	18.90	0.00	099.66	099.21	164.60	0.00	100.34	100.65	100.13	099.70
11	25.70	0.00	?UNDEF	?UNDEF	19.20	0.00	099.66	099.87	144.00	0.00	100.38	100.59	100.09	099.79
12	24.60	0.00	?UNDEF	?UNDEF	21.60	0.00	099.79	103.11	139.00	0.00	100.52	100.62	100.24	099.99
13	24.60	0.00	?UNDEF	?UNDEF	23.70	0.00	099.79	106.97	135.70	0.00	100.52	100.61	100.28	100.13
14	25.20	0.00	?UNDEF	?UNDEF	23.40	0.00	099.81	107.98	134.40	0.00	100.54	100.63	100.16	100.29
15	26.90	0.00	?UNDEF	?UNDEF	24.50	0.00	099.87	107.09	125.60	0.00	100.56	100.63	100.12	100.49
16	27.00	0.00	?UNDEF	?UNDEF	24.70	0.00	099.87	103.08	124.70	0.00	100.42	100.67	100.21	100.61
17	27.00	0.00	?UNDEF	?UNDEF	24.60	0.00	099.85	102.06	125.70	0.00	100.46	100.53	100.04	100.62
18	26.90	0.00	?UNDEF	?UNDEF	24.50	0.00	099.88	102.05	137.30	0.00	100.48	100.42	100.07	100.48
19	26.90	0.00	?UNDEF	?UNDEF	24.40	0.00	099.87	100.63	139.90	0.00	100.46	100.41	099.93	100.49
20	26.70	0.00	?UNDEF	?UNDEF	24.40	0.00	099.84	099.82	141.10	0.00	100.49	100.46	099.97	100.36
21	23.40	0.00	?UNDEF	?UNDEF	23.80	0.00	099.91	099.59	141.20	0.00	100.48	100.43	100.17	100.38
22	12.30	0.00	?UNDEF	?UNDEF	11.60	0.00	099.91	099.30	115.50	0.00	100.42	100.30	100.21	100.24
23	11.60	0.00	?UNDEF	?UNDEF	10.50	0.00	099.91	099.20	112.60	0.00	100.34	100.34	100.11	100.25
24	11.60	0.00	?UNDEF	?UNDEF	9.00	0.00	099.92	099.24	103.70	0.00	100.37	100.36	100.00	100.25

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WALLA WALLA DISTRICT HYDRO PROJECTS
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HOUR	DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.30	0.00	106.76	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	100.56	100.48	17.50	0.00	?UNDEF	?UNDEF	?UNDEF
2	1.30	0.00	106.72	?UNDEF	?UNDEF	?UNDEF	13.60	0.00	100.65	100.48	14.50	0.00	?UNDEF	?UNDEF	?UNDEF
3	1.30	0.00	106.75	?UNDEF	?UNDEF	?UNDEF	11.40	0.00	100.69	100.49	12.20	0.00	?UNDEF	?UNDEF	?UNDEF
4	1.30	0.00	106.76	?UNDEF	?UNDEF	?UNDEF	11.50	0.00	100.71	100.51	12.20	0.00	?UNDEF	?UNDEF	?UNDEF
5	1.30	0.00	106.73	?UNDEF	?UNDEF	?UNDEF	19.10	0.00	100.87	100.51	12.30	0.00	?UNDEF	?UNDEF	?UNDEF
6	1.30	0.00	106.75	?UNDEF	?UNDEF	?UNDEF	24.00	0.00	100.91	100.55	20.90	0.00	?UNDEF	?UNDEF	?UNDEF
7	1.30	0.00	106.69	?UNDEF	?UNDEF	?UNDEF	24.60	0.00	100.87	100.57	21.70	0.00	?UNDEF	?UNDEF	?UNDEF
8	1.30	0.00	106.69	?UNDEF	?UNDEF	?UNDEF	23.90	0.00	100.76	100.53	26.50	0.00	?UNDEF	?UNDEF	?UNDEF
9	1.30	0.00	106.96	?UNDEF	?UNDEF	?UNDEF	24.10	0.00	100.79	100.53	26.80	0.00	?UNDEF	?UNDEF	?UNDEF
10	1.30	0.00	107.42	?UNDEF	?UNDEF	?UNDEF	25.90	0.00	100.64	100.63	28.20	0.00	?UNDEF	?UNDEF	?UNDEF
11	1.30	0.00	107.94	?UNDEF	?UNDEF	?UNDEF	26.30	0.00	100.62	100.64	31.30	0.00	?UNDEF	?UNDEF	?UNDEF
12	1.30	0.00	108.19	?UNDEF	?UNDEF	?UNDEF	26.20	0.00	100.66	100.72	28.10	0.00	?UNDEF	?UNDEF	?UNDEF
13	1.30	0.00	108.40	?UNDEF	?UNDEF	?UNDEF	25.60	0.00	100.76	100.83	28.20	0.00	?UNDEF	?UNDEF	?UNDEF
14	1.30	0.00	108.52	?UNDEF	?UNDEF	?UNDEF	25.80	0.00	101.10	100.88	28.40	0.00	?UNDEF	?UNDEF	?UNDEF
15	1.30	0.00	108.47	?UNDEF	?UNDEF	?UNDEF	32.40	0.00	101.25	100.91	35.20	0.00	?UNDEF	?UNDEF	?UNDEF
16	1.30	0.00	108.38	?UNDEF	?UNDEF	?UNDEF	32.40	0.00	101.29	100.95	38.70	0.00	?UNDEF	?UNDEF	?UNDEF
17	1.30	0.00	108.12	?UNDEF	?UNDEF	?UNDEF	34.10	0.00	101.21	101.00	43.60	0.00	?UNDEF	?UNDEF	?UNDEF
18	1.30	0.00	107.72	?UNDEF	?UNDEF	?UNDEF	27.80	0.00	101.24	101.02	44.80	0.00	?UNDEF	?UNDEF	?UNDEF
19	1.30	0.00	108.12	?UNDEF	?UNDEF	?UNDEF	27.50	0.00	101.26	101.08	44.30	0.00	?UNDEF	?UNDEF	?UNDEF
20	1.30	0.00	107.34	?UNDEF	?UNDEF	?UNDEF	23.30	0.00	101.25	101.04	37.50	0.00	?UNDEF	?UNDEF	?UNDEF
21	1.30	0.00	107.36	?UNDEF	?UNDEF	?UNDEF	18.80	0.00	101.28	100.96	22.70	0.00	?UNDEF	?UNDEF	?UNDEF
22	1.30	0.00	107.34	?UNDEF	?UNDEF	?UNDEF	20.20	0.00	101.28	100.96	19.40	0.00	?UNDEF	?UNDEF	?UNDEF
23	1.30	0.00	107.33	?UNDEF	?UNDEF	?UNDEF	18.40	0.00	101.32	100.84	19.00	0.00	?UNDEF	?UNDEF	?UNDEF
24	1.30	0.00	107.22	?UNDEF	?UNDEF	?UNDEF	11.60	0.00	101.30	100.98	12.40	0.00	?UNDEF	?UNDEF	?UNDEF

HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO	
	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	15.70	0.00	?UNDEF	?UNDEF	13.50	0.00	099.07	098.75	59.60	0.00	100.72	100.72	100.13	099.74
2	15.70	0.00	?UNDEF	?UNDEF	12.70	0.00	099.08	098.63	58.20	0.00	100.74	100.60	100.09	099.54
3	11.80	0.00	?UNDEF	?UNDEF	10.60	0.00	099.11	098.58	51.10	0.00	100.50	100.65	100.27	099.61
4	11.50	0.00	?UNDEF	?UNDEF	8.90	0.00	099.01	098.46	73.10	0.00	100.58	100.72	100.21	099.64
5	11.50	0.00	?UNDEF	?UNDEF	9.10	0.00	099.00	098.49	125.80	0.00	100.45	100.73	100.34	099.66
6	13.20	0.00	?UNDEF	?UNDEF	9.00	0.00	099.03	098.49	148.20	0.00	100.65	100.76	100.43	099.51
7	21.00	0.00	?UNDEF	?UNDEF	9.20	0.00	099.01	098.46	147.70	0.00	100.63	100.76	100.42	099.51
8	29.40	0.00	?UNDEF	?UNDEF	20.50	0.00	098.91	098.63	138.70	0.00	100.69	100.75	100.26	099.53
9	30.40	0.00	?UNDEF	?UNDEF	30.40	0.00	098.78	099.09	129.80	0.00	100.69	100.75	100.42	099.55
10	32.80	0.00	?UNDEF	?UNDEF	34.70	0.00	098.78	099.60	127.10	0.00	100.87	100.77	100.58	099.71
11	32.90	0.00	?UNDEF	?UNDEF	37.10	0.00	098.99	099.92	124.60	0.00	101.03	100.96	100.76	099.84
12	32.80	0.00	?UNDEF	?UNDEF	34.50	0.00	099.04	099.71	126.90	0.00	101.25	101.02	100.85	100.18
13	32.70	0.00	?UNDEF	?UNDEF	34.50	0.00	099.26	100.83	119.20	0.00	101.29	101.13	100.90	100.55
14	35.30	0.00	?UNDEF	?UNDEF	36.20	0.00	099.43	099.92	117.60	0.00	101.53	101.21	101.01	100.75
15	37.90	0.00	?UNDEF	?UNDEF	38.70	0.00	099.45	100.01	122.60	0.00	101.60	101.28	101.05	100.94
16	40.70	0.00	?UNDEF	?UNDEF	42.30	0.00	099.63	101.49	123.60	0.00	101.51	101.17	100.96	101.07
17	44.00	0.00	?UNDEF	?UNDEF	45.00	0.00	099.67	101.35	131.20	0.00	101.39	101.18	100.87	101.10
18	43.80	0.00	?UNDEF	?UNDEF	47.40	0.00	099.68	101.09	137.10	0.00	101.31	101.29	100.78	100.96
19	44.80	0.00	?UNDEF	?UNDEF	44.90	0.00	099.72	099.67	144.60	0.00	101.31	101.42	100.81	101.00
20	37.60	0.00	?UNDEF	?UNDEF	37.60	0.00	099.74	099.54	147.00	0.00	101.21	101.41	100.81	100.85
21	36.70	0.00	?UNDEF	?UNDEF	33.10	0.00	099.79	099.31	143.40	0.00	101.23	101.34	100.81	100.59
22	35.90	0.00	?UNDEF	?UNDEF	32.70	0.00	099.74	099.32	137.80	0.00	101.11	101.32	100.85	100.62
23	20.30	0.00	?UNDEF	?UNDEF	23.60	0.00	099.74	099.32	121.70	0.00	101.06	101.30	100.67	100.46
24	11.80	0.00	?UNDEF	?UNDEF	9.80	0.00	099.76	099.20	122.10	0.00	101.03	101.29	100.67	100.46

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HOUR	DWORSHAK			STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.30	0.00	107.23	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	100.84	100.65	12.30	0.00	?UNDEF	?UNDEF
2	1.30	0.00	107.16	?UNDEF	?UNDEF	?UNDEF	12.10	0.00	100.80	100.88	12.10	0.00	?UNDEF	?UNDEF
3	1.30	0.00	107.15	?UNDEF	?UNDEF	?UNDEF	12.20	0.00	100.78	100.85	12.40	0.00	?UNDEF	?UNDEF
4	1.30	0.00	107.13	?UNDEF	?UNDEF	?UNDEF	12.30	0.00	100.58	100.64	15.20	0.00	?UNDEF	?UNDEF
5	1.30	0.00	106.94	?UNDEF	?UNDEF	?UNDEF	17.20	0.00	100.53	100.44	12.30	0.00	?UNDEF	?UNDEF
6	1.30	0.00	106.87	?UNDEF	?UNDEF	?UNDEF	22.40	0.00	100.51	100.44	16.60	0.00	?UNDEF	?UNDEF
7	1.30	0.00	106.82	?UNDEF	?UNDEF	?UNDEF	24.10	0.00	100.41	100.33	21.50	0.00	?UNDEF	?UNDEF
8	1.30	0.00	106.78	?UNDEF	?UNDEF	?UNDEF	24.40	0.00	100.55	100.29	21.90	0.00	?UNDEF	?UNDEF
9	1.30	0.00	106.82	?UNDEF	?UNDEF	?UNDEF	24.30	0.00	100.49	100.28	24.90	0.00	?UNDEF	?UNDEF
10	1.30	0.00	107.07	?UNDEF	?UNDEF	?UNDEF	24.40	0.00	100.61	100.25	21.60	0.00	?UNDEF	?UNDEF
11	1.30	0.00	107.19	?UNDEF	?UNDEF	?UNDEF	27.60	0.00	100.65	100.41	21.70	0.00	?UNDEF	?UNDEF
12	1.30	0.00	107.52	?UNDEF	?UNDEF	?UNDEF	27.30	0.00	100.84	100.67	21.70	0.00	?UNDEF	?UNDEF
13	1.30	0.00	107.73	?UNDEF	?UNDEF	?UNDEF	27.10	0.00	101.04	100.80	23.10	0.00	?UNDEF	?UNDEF
14	1.30	0.00	108.01	?UNDEF	?UNDEF	?UNDEF	26.90	0.00	101.06	100.83	21.60	0.00	?UNDEF	?UNDEF
15	1.30	0.00	107.98	?UNDEF	?UNDEF	?UNDEF	27.40	0.00	101.02	100.67	23.00	0.00	?UNDEF	?UNDEF
16	1.30	0.00	107.80	?UNDEF	?UNDEF	?UNDEF	26.70	0.00	101.04	100.69	16.10	0.00	?UNDEF	?UNDEF
17	1.30	0.00	107.50	?UNDEF	?UNDEF	?UNDEF	26.80	0.00	100.99	100.68	15.60	0.00	?UNDEF	?UNDEF
18	1.30	0.00	107.18	?UNDEF	?UNDEF	?UNDEF	28.50	0.00	100.95	100.88	15.70	0.00	?UNDEF	?UNDEF
19	1.30	0.00	107.50	?UNDEF	?UNDEF	?UNDEF	26.60	0.00	100.89	100.57	20.80	0.00	?UNDEF	?UNDEF
20	1.30	0.00	106.82	?UNDEF	?UNDEF	?UNDEF	24.80	0.00	100.91	100.44	21.50	0.00	?UNDEF	?UNDEF
21	1.30	0.00	106.82	?UNDEF	?UNDEF	?UNDEF	19.90	0.00	100.89	100.45	24.20	0.00	?UNDEF	?UNDEF
22	1.30	0.00	106.76	?UNDEF	?UNDEF	?UNDEF	19.40	0.00	100.91	100.44	27.30	0.00	?UNDEF	?UNDEF
23	1.30	0.00	106.76	?UNDEF	?UNDEF	?UNDEF	14.10	0.00	100.89	100.43	24.30	0.00	?UNDEF	?UNDEF
24	1.30	0.00	106.90	?UNDEF	?UNDEF	?UNDEF	13.80	0.00	100.67	100.44	15.30	0.00	?UNDEF	?UNDEF
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO	
	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	13.30	0.00	?UNDEF	?UNDEF	9.20	0.00	099.30	099.30	74.70	0.00	100.83	100.55	100.16	099.92
2	14.90	0.00	?UNDEF	?UNDEF	9.10	0.00	099.28	099.22	81.20	0.00	100.79	100.38	100.13	099.72
3	13.50	0.00	?UNDEF	?UNDEF	9.10	0.00	099.26	098.70	78.20	0.00	100.62	100.38	100.13	099.61
4	13.50	0.00	?UNDEF	?UNDEF	10.70	0.00	099.24	098.37	90.30	0.00	100.41	100.37	100.03	099.45
5	13.60	0.00	?UNDEF	?UNDEF	9.30	0.00	099.19	098.23	134.50	0.00	100.33	100.21	100.14	099.32
6	17.90	0.00	?UNDEF	?UNDEF	9.60	0.00	099.13	098.22	158.50	0.00	100.08	100.30	100.09	099.12
7	21.10	0.00	?UNDEF	?UNDEF	12.40	0.00	099.07	098.13	165.70	0.00	099.91	100.25	100.03	098.95
8	21.20	0.00	?UNDEF	?UNDEF	17.80	0.00	099.02	098.31	165.40	0.00	100.09	100.20	099.97	098.73
9	21.30	0.00	?UNDEF	?UNDEF	17.70	0.00	099.02	099.05	166.50	0.00	100.10	100.31	100.10	098.72
10	21.20	0.00	?UNDEF	?UNDEF	17.60	0.00	099.12	098.75	167.00	0.00	100.21	100.39	100.20	098.81
11	18.50	0.00	?UNDEF	?UNDEF	17.90	0.00	099.31	099.03	165.60	0.00	100.52	100.59	100.40	099.12
12	16.70	0.00	?UNDEF	?UNDEF	13.20	0.00	099.53	099.41	166.40	0.00	100.96	100.64	100.46	099.54
13	16.60	0.00	?UNDEF	?UNDEF	12.30	0.00	099.55	099.99	166.20	0.00	101.02	100.68	100.51	099.79
14	18.10	0.00	?UNDEF	?UNDEF	13.80	0.00	099.57	099.73	165.20	0.00	101.22	100.71	100.53	100.07
15	16.50	0.00	?UNDEF	?UNDEF	12.00	0.00	099.58	099.87	156.40	0.00	101.20	100.74	100.53	100.38
16	15.00	0.00	?UNDEF	?UNDEF	11.80	0.00	099.59	099.67	122.30	0.00	101.05	100.74	100.43	100.41
17	15.20	0.00	?UNDEF	?UNDEF	11.90	0.00	099.63	099.45	121.30	0.00	101.13	100.81	100.34	100.58
18	15.10	0.00	?UNDEF	?UNDEF	13.20	0.00	099.61	099.19	122.60	0.00	101.00	100.80	100.20	100.30
19	19.40	0.00	?UNDEF	?UNDEF	11.60	0.00	099.61	099.31	108.70	0.00	101.00	100.71	100.23	100.17
20	18.30	0.00	?UNDEF	?UNDEF	11.90	0.00	099.63	098.93	98.10	0.00	100.71	100.69	100.09	100.00
21	25.10	0.00	?UNDEF	?UNDEF	19.50	0.00	099.36	098.67	98.90	0.00	100.72	100.67	100.08	099.89
22	26.00	0.00	?UNDEF	?UNDEF	25.00	0.00	099.11	098.70	95.40	0.00	100.60	100.84	100.12	099.78
23	25.60	0.00	?UNDEF	?UNDEF	25.60	0.00	099.02	098.80	91.40	0.00	100.59	100.67	100.23	099.65
24	18.10	0.00	?UNDEF	?UNDEF	24.70	0.00	099.03	099.01	97.00	0.00	100.71	100.71	100.25	099.65

06 FEB 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

06 FEB 2001

HOUR	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.30	0.00	107.14	?UNDEF	?UNDEF	?UNDEF	14.70	0.00	100.72	100.51	13.60	0.00	?UNDEF	?UNDEF
2	1.30	0.00	107.20	?UNDEF	?UNDEF	?UNDEF	11.70	0.00	100.79	101.00	11.70	0.00	?UNDEF	?UNDEF
3	1.30	0.00	107.31	?UNDEF	?UNDEF	?UNDEF	11.50	0.00	100.82	100.78	11.60	0.00	?UNDEF	?UNDEF
4	1.30	0.00	107.34	?UNDEF	?UNDEF	?UNDEF	13.10	0.00	100.93	100.84	11.60	0.00	?UNDEF	?UNDEF
5	1.30	0.00	107.40	?UNDEF	?UNDEF	?UNDEF	11.80	0.00	101.06	100.88	11.70	0.00	?UNDEF	?UNDEF
6	1.30	0.00	107.44	?UNDEF	?UNDEF	?UNDEF	20.70	0.00	100.95	100.88	20.90	0.00	?UNDEF	?UNDEF
7	1.30	0.00	107.44	?UNDEF	?UNDEF	?UNDEF	21.00	0.00	100.93	100.88	24.90	0.00	?UNDEF	?UNDEF
8	1.30	0.00	107.44	?UNDEF	?UNDEF	?UNDEF	20.90	0.00	101.09	100.86	24.00	0.00	?UNDEF	?UNDEF
9	1.30	0.00	107.74	?UNDEF	?UNDEF	?UNDEF	20.90	0.00	100.95	100.99	27.10	0.00	?UNDEF	?UNDEF
10	1.30	0.00	108.10	?UNDEF	?UNDEF	?UNDEF	21.00	0.00	100.97	101.03	27.10	0.00	?UNDEF	?UNDEF
11	1.30	0.00	108.42	?UNDEF	?UNDEF	?UNDEF	21.30	0.00	101.13	101.10	24.20	0.00	?UNDEF	?UNDEF
12	1.30	0.00	108.61	?UNDEF	?UNDEF	?UNDEF	20.90	0.00	101.17	101.14	24.20	0.00	?UNDEF	?UNDEF
13	1.30	0.00	108.70	?UNDEF	?UNDEF	?UNDEF	21.00	0.00	101.24	101.17	24.20	0.00	?UNDEF	?UNDEF
14	1.30	0.00	108.76	?UNDEF	?UNDEF	?UNDEF	20.90	0.00	101.38	101.21	24.10	0.00	?UNDEF	?UNDEF
15	1.30	0.00	108.62	?UNDEF	?UNDEF	?UNDEF	20.20	0.00	101.37	101.18	24.30	0.00	?UNDEF	?UNDEF
16	1.30	0.00	108.47	?UNDEF	?UNDEF	?UNDEF	19.40	0.00	101.41	101.18	24.00	0.00	?UNDEF	?UNDEF
17	1.30	0.00	108.01	?UNDEF	?UNDEF	?UNDEF	18.70	0.00	101.34	101.17	22.10	0.00	?UNDEF	?UNDEF
18	1.30	0.00	107.55	?UNDEF	?UNDEF	?UNDEF	22.80	0.00	101.28	101.13	21.70	0.00	?UNDEF	?UNDEF
19	1.30	0.00	108.01	?UNDEF	?UNDEF	?UNDEF	22.50	0.00	101.22	101.06	21.70	0.00	?UNDEF	?UNDEF
20	1.30	0.00	107.32	?UNDEF	?UNDEF	?UNDEF	22.90	0.00	101.24	101.02	24.60	0.00	?UNDEF	?UNDEF
21	1.30	0.00	107.27	?UNDEF	?UNDEF	?UNDEF	19.50	0.00	101.18	100.84	19.30	0.00	?UNDEF	?UNDEF
22	1.30	0.00	107.23	?UNDEF	?UNDEF	?UNDEF	19.10	0.00	100.97	100.73	18.90	0.00	?UNDEF	?UNDEF
23	1.30	0.00	107.28	?UNDEF	?UNDEF	?UNDEF	13.80	0.00	100.91	100.71	14.50	0.00	?UNDEF	?UNDEF
24	1.30	0.00	107.23	?UNDEF	?UNDEF	?UNDEF	13.20	0.00	100.90	100.69	14.30	0.00	?UNDEF	?UNDEF
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO	
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	13.30	0.00	?UNDEF	?UNDEF	19.80	0.00	099.55	098.83	77.30	0.00	101.25	100.71	100.37	100.95
2	11.60	0.00	?UNDEF	?UNDEF	13.10	0.00	099.57	098.89	76.40	0.00	101.31	100.76	100.45	100.84
3	13.00	0.00	?UNDEF	?UNDEF	12.80	0.00	099.63	098.93	76.70	0.00	101.35	100.76	100.42	100.90
4	13.00	0.00	?UNDEF	?UNDEF	12.40	0.00	099.64	098.95	78.40	0.00	101.29	100.83	100.48	100.79
5	11.80	0.00	?UNDEF	?UNDEF	13.00	0.00	099.55	098.85	92.40	0.00	101.40	100.83	100.52	100.69
6	20.40	0.00	?UNDEF	?UNDEF	19.90	0.00	099.55	099.03	103.80	0.00	101.44	100.88	100.52	100.73
7	26.00	0.00	?UNDEF	?UNDEF	27.00	0.00	099.66	098.97	121.20	0.00	101.44	100.84	100.47	100.65
8	25.00	0.00	?UNDEF	?UNDEF	23.90	0.00	099.75	099.07	120.10	0.00	101.41	100.84	100.62	100.53
9	25.30	0.00	?UNDEF	?UNDEF	25.80	0.00	099.75	099.12	117.00	0.00	101.41	100.89	100.73	100.49
10	25.50	0.00	?UNDEF	?UNDEF	24.00	0.00	099.75	099.78	112.90	0.00	101.21	100.92	100.85	100.65
11	25.60	0.00	?UNDEF	?UNDEF	28.60	0.00	099.78	099.67	114.60	0.00	101.35	101.06	100.86	100.79
12	25.60	0.00	?UNDEF	?UNDEF	30.20	0.00	099.82	099.99	117.90	0.00	101.54	101.30	101.09	101.12
13	25.60	0.00	?UNDEF	?UNDEF	28.90	0.00	099.87	099.84	115.50	0.00	101.60	101.20	101.13	101.41
14	27.30	0.00	?UNDEF	?UNDEF	28.90	0.00	099.85	099.79	119.60	0.00	101.54	101.29	101.22	101.57
15	25.80	0.00	?UNDEF	?UNDEF	28.40	0.00	099.88	100.04	115.40	0.00	101.56	101.29	101.21	101.85
16	26.70	0.00	?UNDEF	?UNDEF	28.20	0.00	099.84	099.69	117.30	0.00	101.59	101.29	101.19	101.81
17	26.80	0.00	?UNDEF	?UNDEF	27.80	0.00	099.80	099.37	121.50	0.00	101.60	101.27	101.05	101.77
18	25.80	0.00	?UNDEF	?UNDEF	34.60	0.00	099.80	099.61	135.60	0.00	101.37	101.08	100.88	101.58
19	25.90	0.00	?UNDEF	?UNDEF	36.60	0.00	099.62	099.58	135.40	0.00	101.17	101.00	100.65	101.41
20	25.70	0.00	?UNDEF	?UNDEF	36.20	0.00	099.70	099.12	115.20	0.00	101.15	100.80	100.50	101.23
21	19.60	0.00	?UNDEF	?UNDEF	26.90	0.00	099.64	099.45	98.90	0.00	101.07	100.92	100.44	100.91
22	19.20	0.00	?UNDEF	?UNDEF	20.10	0.00	099.55	098.97	97.60	0.00	101.05	100.76	100.39	100.70
23	14.20	0.00	?UNDEF	?UNDEF	12.40	0.00	099.41	099.22	93.90	0.00	100.88	100.73	100.21	100.41
24	13.30	0.00	?UNDEF	?UNDEF	12.40	0.00	099.36	099.20	92.90	0.00	100.88	100.58	100.16	100.41

05 FEB 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
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	DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE				
HOUR :	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	:	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1 :	1.30	0.00	107.18	:	?UNDEF	?UNDEF	?UNDEF	:	11.50	0.00	100.84	100.67	:	11.50	0.00	?UNDEF	?UNDEF
2 :	1.30	0.00	107.24	:	?UNDEF	?UNDEF	?UNDEF	:	11.80	0.00	100.89	100.65	:	11.50	0.00	?UNDEF	?UNDEF
3 :	1.30	0.00	107.21	:	?UNDEF	?UNDEF	?UNDEF	:	11.30	0.00	100.86	100.64	:	11.50	0.00	?UNDEF	?UNDEF
4 :	1.30	0.00	107.15	:	?UNDEF	?UNDEF	?UNDEF	:	11.40	0.00	100.83	100.60	:	14.40	0.00	?UNDEF	?UNDEF
5 :	1.30	0.00	107.12	:	?UNDEF	?UNDEF	?UNDEF	:	11.40	0.00	100.79	100.53	:	11.70	0.00	?UNDEF	?UNDEF
6 :	1.30	0.00	107.07	:	?UNDEF	?UNDEF	?UNDEF	:	16.30	0.00	100.52	100.44	:	20.80	0.00	?UNDEF	?UNDEF
7 :	1.30	0.00	106.98	:	?UNDEF	?UNDEF	?UNDEF	:	16.80	0.00	100.63	100.43	:	21.40	0.00	?UNDEF	?UNDEF
8 :	1.30	0.00	106.95	:	?UNDEF	?UNDEF	?UNDEF	:	16.90	0.00	100.52	100.33	:	21.90	0.00	?UNDEF	?UNDEF
9 :	1.30	0.00	107.16	:	?UNDEF	?UNDEF	?UNDEF	:	17.00	0.00	100.51	100.28	:	29.30	0.00	?UNDEF	?UNDEF
10 :	1.30	0.00	107.36	:	?UNDEF	?UNDEF	?UNDEF	:	17.30	0.00	100.41	100.37	:	26.80	0.00	?UNDEF	?UNDEF
11 :	1.30	0.00	107.66	:	?UNDEF	?UNDEF	?UNDEF	:	17.20	0.00	100.36	100.28	:	26.70	0.00	?UNDEF	?UNDEF
12 :	1.30	0.00	107.91	:	?UNDEF	?UNDEF	?UNDEF	:	17.30	0.00	100.49	100.31	:	26.80	0.00	?UNDEF	?UNDEF
13 :	1.30	0.00	108.12	:	?UNDEF	?UNDEF	?UNDEF	:	17.50	0.00	100.53	100.29	:	26.80	0.00	?UNDEF	?UNDEF
14 :	1.30	0.00	108.24	:	?UNDEF	?UNDEF	?UNDEF	:	18.90	0.00	100.59	100.36	:	26.80	0.00	?UNDEF	?UNDEF
15 :	1.30	0.00	108.03	:	?UNDEF	?UNDEF	?UNDEF	:	17.20	0.00	100.45	100.67	:	26.90	0.00	?UNDEF	?UNDEF
16 :	1.30	0.00	107.70	:	?UNDEF	?UNDEF	?UNDEF	:	17.50	0.00	100.44	100.67	:	19.80	0.00	?UNDEF	?UNDEF
17 :	1.30	0.00	107.58	:	?UNDEF	?UNDEF	?UNDEF	:	26.60	0.00	100.48	100.55	:	26.50	0.00	?UNDEF	?UNDEF
18 :	1.30	0.00	107.88	:	?UNDEF	?UNDEF	?UNDEF	:	28.90	0.00	100.45	100.25	:	33.20	0.00	?UNDEF	?UNDEF
19 :	1.30	0.00	107.58	:	?UNDEF	?UNDEF	?UNDEF	:	27.00	0.00	100.48	100.27	:	27.00	0.00	?UNDEF	?UNDEF
20 :	1.30	0.00	107.04	:	?UNDEF	?UNDEF	?UNDEF	:	22.00	0.00	100.52	100.59	:	29.70	0.00	?UNDEF	?UNDEF
21 :	1.30	0.00	106.92	:	?UNDEF	?UNDEF	?UNDEF	:	21.00	0.00	100.55	100.63	:	23.50	0.00	?UNDEF	?UNDEF
22 :	1.30	0.00	106.95	:	?UNDEF	?UNDEF	?UNDEF	:	17.10	0.00	100.56	100.37	:	16.90	0.00	?UNDEF	?UNDEF
23 :	1.30	0.00	107.04	:	?UNDEF	?UNDEF	?UNDEF	:	13.60	0.00	100.60	100.39	:	15.20	0.00	?UNDEF	?UNDEF
24 :	1.30	0.00	107.20	:	?UNDEF	?UNDEF	?UNDEF	:	13.30	0.00	100.64	100.45	:	13.60	0.00	?UNDEF	?UNDEF
	LOWER MONUMENTAL					ICE HARBOR					MCNARY					PASCO	
HOUR :	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	:	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	:	GAS % SAT
1 :	11.70	0.00	?UNDEF	?UNDEF	:	14.00	0.00	099.49	098.93	:	71.00	0.00	100.94	101.01	100.54	:	101.49
2 :	11.80	0.00	?UNDEF	?UNDEF	:	9.20	0.00	099.43	098.90	:	58.10	0.00	100.87	100.96	100.37	:	101.33
3 :	11.80	0.00	?UNDEF	?UNDEF	:	9.10	0.00	099.42	098.75	:	57.30	0.00	100.79	100.79	100.31	:	101.11
4 :	11.80	0.00	?UNDEF	?UNDEF	:	9.00	0.00	099.38	098.69	:	60.50	0.00	100.76	100.71	100.29	:	101.05
5 :	12.10	0.00	?UNDEF	?UNDEF	:	12.60	0.00	099.33	098.64	:	82.80	0.00	100.61	100.80	100.20	:	100.96
6 :	22.00	0.00	?UNDEF	?UNDEF	:	19.90	0.00	099.28	098.85	:	108.30	0.00	100.71	100.77	100.44	:	100.78
7 :	20.40	0.00	?UNDEF	?UNDEF	:	19.80	0.00	099.36	098.51	:	120.70	0.00	100.64	100.72	100.22	:	100.58
8 :	20.50	0.00	?UNDEF	?UNDEF	:	20.80	0.00	099.13	099.11	:	118.20	0.00	100.71	100.64	100.18	:	100.43
9 :	31.00	0.00	?UNDEF	?UNDEF	:	31.80	0.00	099.21	099.24	:	116.00	0.00	100.78	100.55	100.50	:	100.38
10 :	28.00	0.00	?UNDEF	?UNDEF	:	32.20	0.00	099.16	098.97	:	111.90	0.00	100.78	100.65	100.46	:	100.42
11 :	33.00	0.00	?UNDEF	?UNDEF	:	32.30	0.00	098.94	099.01	:	110.60	0.00	100.70	100.77	100.43	:	100.64
12 :	33.10	0.00	?UNDEF	?UNDEF	:	32.30	0.00	099.12	099.32	:	115.80	0.00	100.80	100.48	100.40	:	100.92
13 :	33.10	0.00	?UNDEF	?UNDEF	:	32.30	0.00	099.12	099.37	:	113.40	0.00	100.83	100.52	100.43	:	100.84
14 :	32.90	0.00	?UNDEF	?UNDEF	:	32.80	0.00	099.45	099.27	:	111.80	0.00	100.88	100.57	100.52	:	101.30
15 :	28.50	0.00	?UNDEF	?UNDEF	:	27.30	0.00	099.48	099.30	:	111.60	0.00	100.92	100.44	100.40	:	101.63
16 :	26.80	0.00	?UNDEF	?UNDEF	:	26.80	0.00	099.51	099.10	:	118.20	0.00	100.97	100.51	100.33	:	101.79
17 :	27.30	0.00	?UNDEF	?UNDEF	:	26.90	0.00	099.50	098.95	:	124.30	0.00	100.96	100.61	100.31	:	101.79
18 :	39.50	0.00	?UNDEF	?UNDEF	:	26.90	0.00	099.51	098.69	:	127.80	0.00	101.12	100.68	100.22	:	101.78
19 :	27.80	0.00	?UNDEF	?UNDEF	:	26.80	0.00	099.50	098.71	:	114.90	0.00	101.10	100.54	100.29	:	101.67
20 :	27.20	0.00	?UNDEF	?UNDEF	:	26.50	0.00	099.45	098.75	:	125.60	0.00	101.17	100.59	100.13	:	101.59
21 :	21.00	0.00	?UNDEF	?UNDEF	:	20.40	0.00	099.49	098.78	:	111.10	0.00	101.21	100.61	100.16	:	101.45
22 :	16.50	0.00	?UNDEF	?UNDEF	:	19.70	0.00	099.51	098.70	:	88.20	0.00	101.08	100.52	100.21	:	101.38
23 :	16.20	0.00	?UNDEF	?UNDEF	:	19.60	0.00	099.53	098.71	:	82.00	0.00	101.16	100.56	100.22	:	101.13
24 :	16.30	0.00	?UNDEF	?UNDEF	:	19.60	0.00	099.47	098.77	:	78.80	0.00	101.21	100.63	100.29	:	101.13

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WALLA WALLA DISTRICT HYDRO PROJECTS
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	DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	
1	1.30	0.00	106.57	?UNDEF	?UNDEF	?UNDEF	12.40	0.00	099.99	099.67	14.20	0.00	?UNDEF	?UNDEF	
2	1.30	0.00	106.62	?UNDEF	?UNDEF	?UNDEF	11.40	0.00	100.01	099.67	13.40	0.00	?UNDEF	?UNDEF	
3	1.30	0.00	106.68	?UNDEF	?UNDEF	?UNDEF	11.40	0.00	100.11	099.76	13.50	0.00	?UNDEF	?UNDEF	
4	1.30	0.00	106.74	?UNDEF	?UNDEF	?UNDEF	11.50	0.00	100.17	099.88	13.30	0.00	?UNDEF	?UNDEF	
5	1.30	0.00	106.75	?UNDEF	?UNDEF	?UNDEF	13.70	0.00	100.24	099.92	13.20	0.00	?UNDEF	?UNDEF	
6	1.30	0.00	106.66	?UNDEF	?UNDEF	?UNDEF	16.90	0.00	100.27	099.95	13.30	0.00	?UNDEF	?UNDEF	
7	1.30	0.00	106.66	?UNDEF	?UNDEF	?UNDEF	19.70	0.00	100.27	099.93	17.30	0.00	?UNDEF	?UNDEF	
8	1.30	0.00	106.66	?UNDEF	?UNDEF	?UNDEF	25.50	0.00	100.24	099.92	31.30	0.00	?UNDEF	?UNDEF	
9	1.30	0.00	106.82	?UNDEF	?UNDEF	?UNDEF	25.70	0.00	100.27	099.95	31.80	0.00	?UNDEF	?UNDEF	
10	1.30	0.00	106.97	?UNDEF	?UNDEF	?UNDEF	25.70	0.00	100.27	099.95	32.20	0.00	?UNDEF	?UNDEF	
11	1.30	0.00	107.30	?UNDEF	?UNDEF	?UNDEF	26.00	0.00	100.29	099.99	42.20	0.00	?UNDEF	?UNDEF	
12	1.30	0.00	107.55	?UNDEF	?UNDEF	?UNDEF	18.20	0.00	100.35	100.25	46.30	0.00	?UNDEF	?UNDEF	
13	1.30	0.00	107.66	?UNDEF	?UNDEF	?UNDEF	17.70	0.00	100.63	100.41	45.10	0.00	?UNDEF	?UNDEF	
14	1.30	0.00	107.93	?UNDEF	?UNDEF	?UNDEF	17.80	0.00	100.65	100.43	28.50	0.00	?UNDEF	?UNDEF	
15	1.30	0.00	107.94	?UNDEF	?UNDEF	?UNDEF	17.60	0.00	100.80	100.49	18.50	0.00	?UNDEF	?UNDEF	
16	1.30	0.00	107.72	?UNDEF	?UNDEF	?UNDEF	17.80	0.00	100.72	100.51	20.60	0.00	?UNDEF	?UNDEF	
17	1.30	0.00	107.35	?UNDEF	?UNDEF	?UNDEF	15.70	0.00	100.76	100.71	15.60	0.00	?UNDEF	?UNDEF	
18	1.30	0.00	107.23	?UNDEF	?UNDEF	?UNDEF	17.40	0.00	100.84	100.76	15.40	0.00	?UNDEF	?UNDEF	
19	1.30	0.00	107.35	?UNDEF	?UNDEF	?UNDEF	15.70	0.00	100.82	101.00	15.60	0.00	?UNDEF	?UNDEF	
20	1.30	0.00	107.02	?UNDEF	?UNDEF	?UNDEF	17.40	0.00	100.96	100.77	15.80	0.00	?UNDEF	?UNDEF	
21	1.30	0.00	107.01	?UNDEF	?UNDEF	?UNDEF	14.30	0.00	100.91	100.81	14.10	0.00	?UNDEF	?UNDEF	
22	1.30	0.00	107.08	?UNDEF	?UNDEF	?UNDEF	14.00	0.00	100.92	100.84	14.20	0.00	?UNDEF	?UNDEF	
23	1.30	0.00	107.17	?UNDEF	?UNDEF	?UNDEF	13.90	0.00	101.05	100.88	14.20	0.00	?UNDEF	?UNDEF	
24	1.30	0.00	107.25	?UNDEF	?UNDEF	?UNDEF	11.40	0.00	100.99	100.68	11.60	0.00	?UNDEF	?UNDEF	
	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT	
1	13.80	0.00	?UNDEF	?UNDEF	20.10	0.00	098.47	098.05	85.50	0.00	100.16	100.33	100.03	101.06	
2	13.80	0.00	?UNDEF	?UNDEF	19.80	0.00	098.57	098.01	77.20	0.00	100.21	100.39	099.99	101.01	
3	13.60	0.00	?UNDEF	?UNDEF	20.10	0.00	098.64	098.05	74.60	0.00	100.29	100.48	100.03	100.93	
4	13.80	0.00	?UNDEF	?UNDEF	21.50	0.00	098.64	098.08	74.20	0.00	100.29	100.50	100.04	100.94	
5	13.60	0.00	?UNDEF	?UNDEF	22.40	0.00	098.62	098.04	82.20	0.00	100.38	100.46	100.04	100.84	
6	13.70	0.00	?UNDEF	?UNDEF	20.50	0.00	098.66	098.36	90.10	0.00	100.39	100.46	100.30	100.81	
7	17.40	0.00	?UNDEF	?UNDEF	20.90	0.00	098.66	098.47	117.10	0.00	100.35	100.46	100.25	100.69	
8	39.00	0.00	?UNDEF	?UNDEF	37.70	0.00	098.62	098.38	122.20	0.00	100.63	100.44	100.01	100.68	
9	38.30	0.00	?UNDEF	?UNDEF	38.90	0.00	098.64	098.21	123.30	0.00	100.49	100.44	100.03	100.67	
10	39.70	0.00	?UNDEF	?UNDEF	37.30	0.00	098.62	098.60	123.80	0.00	100.55	100.61	100.16	100.68	
11	41.60	0.00	?UNDEF	?UNDEF	40.60	0.00	098.65	098.70	122.10	0.00	100.85	100.68	100.36	100.84	
12	41.60	0.00	?UNDEF	?UNDEF	33.20	0.00	098.73	098.80	119.80	0.00	101.05	100.74	100.43	101.02	
13	41.80	0.00	?UNDEF	?UNDEF	33.20	0.00	098.77	098.66	117.40	0.00	101.05	101.02	100.69	101.29	
14	43.80	0.00	?UNDEF	?UNDEF	40.90	0.00	099.03	098.76	115.00	0.00	101.09	101.06	100.73	101.47	
15	40.90	0.00	?UNDEF	?UNDEF	41.00	0.00	099.04	098.62	115.10	0.00	101.17	101.13	100.64	101.53	
16	26.60	0.00	?UNDEF	?UNDEF	25.70	0.00	099.11	098.67	105.60	0.00	101.16	101.09	100.51	101.55	
17	16.30	0.00	?UNDEF	?UNDEF	19.50	0.00	099.17	098.71	103.20	0.00	101.12	100.96	100.48	101.78	
18	15.70	0.00	?UNDEF	?UNDEF	19.20	0.00	099.24	098.94	106.70	0.00	101.19	101.14	100.41	101.84	
19	15.70	0.00	?UNDEF	?UNDEF	17.60	0.00	099.33	098.94	97.30	0.00	100.92	101.27	100.44	101.84	
20	15.60	0.00	?UNDEF	?UNDEF	17.60	0.00	099.39	099.35	95.80	0.00	101.03	101.23	100.38	101.75	
21	13.90	0.00	?UNDEF	?UNDEF	13.30	0.00	099.41	099.12	77.00	0.00	100.96	101.19	100.34	101.79	
22	15.30	0.00	?UNDEF	?UNDEF	12.60	0.00	099.32	099.67	75.20	0.00	101.00	101.26	100.39	101.69	
23	13.90	0.00	?UNDEF	?UNDEF	12.30	0.00	099.56	099.24	70.70	0.00	101.16	101.18	100.48	101.64	
24	11.70	0.00	?UNDEF	?UNDEF	10.90	0.00	099.47	098.93	69.80	0.00	100.94	101.14	100.52	101.64	

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WALLA WALLA DISTRICT HYDRO PROJECTS
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DWRSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.30	0.00	098.94	?UNDEF	?UNDEF	?UNDEF	14.80	0.00	099.88	099.54	12.40	0.00	?UNDEF	?UNDEF
2	1.30	0.00	103.32	?UNDEF	?UNDEF	?UNDEF	16.40	0.00	099.88	099.52	12.60	0.00	?UNDEF	?UNDEF
3	1.30	0.00	105.04	?UNDEF	?UNDEF	?UNDEF	14.60	0.00	099.83	100.16	12.60	0.00	?UNDEF	?UNDEF
4	1.30	0.00	105.69	?UNDEF	?UNDEF	?UNDEF	14.60	0.00	099.63	099.71	12.60	0.00	?UNDEF	?UNDEF
5	1.30	0.00	106.04	?UNDEF	?UNDEF	?UNDEF	15.10	0.00	099.56	099.52	12.30	0.00	?UNDEF	?UNDEF
6	1.30	0.00	106.09	?UNDEF	?UNDEF	?UNDEF	21.60	0.00	099.69	099.34	14.20	0.00	?UNDEF	?UNDEF
7	1.30	0.00	106.06	?UNDEF	?UNDEF	?UNDEF	21.90	0.00	099.67	099.31	19.80	0.00	?UNDEF	?UNDEF
8	1.30	0.00	106.16	?UNDEF	?UNDEF	?UNDEF	21.60	0.00	099.64	099.26	24.40	0.00	?UNDEF	?UNDEF
9	1.30	0.00	106.22	?UNDEF	?UNDEF	?UNDEF	27.10	0.00	099.42	099.21	30.10	0.00	?UNDEF	?UNDEF
10	1.30	0.00	106.58	?UNDEF	?UNDEF	?UNDEF	27.90	0.00	099.46	099.14	38.60	0.00	?UNDEF	?UNDEF
11	1.30	0.00	107.00	?UNDEF	?UNDEF	?UNDEF	27.70	0.00	099.60	099.15	38.00	0.00	?UNDEF	?UNDEF
12	1.30	0.00	107.21	?UNDEF	?UNDEF	?UNDEF	28.00	0.00	099.81	099.19	38.20	0.00	?UNDEF	?UNDEF
13	1.30	0.00	107.39	?UNDEF	?UNDEF	?UNDEF	28.00	0.00	099.93	099.56	38.60	0.00	?UNDEF	?UNDEF
14	1.30	0.00	107.44	?UNDEF	?UNDEF	?UNDEF	28.00	0.00	099.99	099.60	38.50	0.00	?UNDEF	?UNDEF
15	1.30	0.00	107.47	?UNDEF	?UNDEF	?UNDEF	28.30	0.00	099.95	099.59	38.20	0.00	?UNDEF	?UNDEF
16	1.30	0.00	107.47	?UNDEF	?UNDEF	?UNDEF	17.90	0.00	099.95	099.60	31.40	0.00	?UNDEF	?UNDEF
17	1.30	0.00	107.22	?UNDEF	?UNDEF	?UNDEF	17.40	0.00	099.97	099.60	28.10	0.00	?UNDEF	?UNDEF
18	1.30	0.00	107.01	?UNDEF	?UNDEF	?UNDEF	17.50	0.00	099.76	099.56	28.00	0.00	?UNDEF	?UNDEF
19	1.30	0.00	107.22	?UNDEF	?UNDEF	?UNDEF	17.40	0.00	099.80	099.59	23.40	0.00	?UNDEF	?UNDEF
20	1.30	0.00	106.58	?UNDEF	?UNDEF	?UNDEF	17.50	0.00	099.79	099.58	19.60	0.00	?UNDEF	?UNDEF
21	1.30	0.00	106.58	?UNDEF	?UNDEF	?UNDEF	14.10	0.00	099.83	099.51	20.00	0.00	?UNDEF	?UNDEF
22	1.30	0.00	106.61	?UNDEF	?UNDEF	?UNDEF	13.80	0.00	099.84	099.54	16.70	0.00	?UNDEF	?UNDEF
23	1.30	0.00	106.58	?UNDEF	?UNDEF	?UNDEF	12.70	0.00	099.85	099.55	16.50	0.00	?UNDEF	?UNDEF
24	1.30	0.00	106.63	?UNDEF	?UNDEF	?UNDEF	12.40	0.00	099.93	099.62	16.40	0.00	?UNDEF	?UNDEF
LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	13.10	0.00	?UNDEF	?UNDEF	12.20	0.00	097.98	097.46	96.00	0.00	099.58	099.49	099.22	100.20
2	13.20	0.00	?UNDEF	?UNDEF	12.20	0.00	097.92	097.42	96.90	0.00	099.52	099.47	099.30	100.16
3	13.10	0.00	?UNDEF	?UNDEF	12.50	0.00	097.91	097.51	88.20	0.00	099.48	099.42	099.26	100.01
4	13.10	0.00	?UNDEF	?UNDEF	12.10	0.00	097.77	097.49	87.90	0.00	099.46	099.44	099.13	099.97
5	13.20	0.00	?UNDEF	?UNDEF	12.10	0.00	097.89	097.44	87.00	0.00	099.40	099.38	099.05	099.96
6	13.20	0.00	?UNDEF	?UNDEF	12.20	0.00	097.89	097.30	90.50	0.00	099.40	099.35	099.05	099.75
7	13.40	0.00	?UNDEF	?UNDEF	12.10	0.00	097.81	097.14	124.60	0.00	099.28	099.31	099.03	099.76
8	19.20	0.00	?UNDEF	?UNDEF	12.60	0.00	097.80	097.31	120.00	0.00	099.35	099.42	099.11	099.73
9	27.70	0.00	?UNDEF	?UNDEF	22.10	0.00	097.89	097.70	122.30	0.00	099.35	099.40	099.21	099.84
10	35.60	0.00	?UNDEF	?UNDEF	30.10	0.00	097.85	097.68	126.80	0.00	099.65	099.46	099.29	099.91
11	38.80	0.00	?UNDEF	?UNDEF	40.50	0.00	097.80	098.06	127.30	0.00	099.91	099.48	099.44	100.01
12	38.80	0.00	?UNDEF	?UNDEF	41.00	0.00	097.89	097.96	126.70	0.00	099.88	099.56	099.66	100.37
13	41.00	0.00	?UNDEF	?UNDEF	41.00	0.00	097.98	098.03	125.80	0.00	099.95	099.81	099.71	100.71
14	39.40	0.00	?UNDEF	?UNDEF	45.40	0.00	098.05	098.37	123.00	0.00	100.03	099.90	099.81	100.89
15	40.50	0.00	?UNDEF	?UNDEF	44.80	0.00	098.07	098.28	121.70	0.00	100.18	099.92	099.83	101.07
16	38.50	0.00	?UNDEF	?UNDEF	45.00	0.00	098.21	098.11	121.60	0.00	100.37	100.20	099.87	101.32
17	33.00	0.00	?UNDEF	?UNDEF	44.50	0.00	098.19	097.94	121.80	0.00	100.35	100.14	099.83	101.48
18	27.80	0.00	?UNDEF	?UNDEF	36.20	0.00	098.19	097.88	122.70	0.00	100.18	100.16	099.68	101.41
19	27.30	0.00	?UNDEF	?UNDEF	32.90	0.00	098.08	097.76	122.70	0.00	100.22	100.18	099.71	101.48
20	27.30	0.00	?UNDEF	?UNDEF	27.20	0.00	098.09	097.93	122.30	0.00	100.03	100.22	099.64	101.35
21	25.10	0.00	?UNDEF	?UNDEF	23.90	0.00	098.25	098.06	111.90	0.00	100.03	100.35	099.64	101.32
22	18.20	0.00	?UNDEF	?UNDEF	23.50	0.00	098.22	097.79	100.60	0.00	100.00	100.21	099.62	101.19
23	18.00	0.00	?UNDEF	?UNDEF	23.50	0.00	098.35	097.72	97.70	0.00	100.01	100.22	099.79	101.07
24	17.70	0.00	?UNDEF	?UNDEF	23.60	0.00	098.42	098.41	95.90	0.00	100.04	100.25	099.81	101.07

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WALLA WALLA DISTRICT HYDRO PROJECTS
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	DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	
1	2.50	0.00	096.48	?UNDEF	?UNDEF	?UNDEF	16.50	0.00	100.15	099.81	13.30	0.00	?UNDEF	?UNDEF	
2	2.50	0.00	096.36	?UNDEF	?UNDEF	?UNDEF	16.50	0.00	100.21	099.91	1.20	0.00	?UNDEF	?UNDEF	
3	2.60	0.00	096.38	?UNDEF	?UNDEF	?UNDEF	16.80	0.00	100.25	099.92	0.00	0.00	?UNDEF	?UNDEF	
4	2.50	0.00	096.38	?UNDEF	?UNDEF	?UNDEF	18.70	0.00	100.36	100.53	1.20	0.00	?UNDEF	?UNDEF	
5	2.70	0.00	096.31	?UNDEF	?UNDEF	?UNDEF	26.70	0.00	100.36	100.52	12.90	0.00	?UNDEF	?UNDEF	
6	4.70	0.00	100.22	?UNDEF	?UNDEF	?UNDEF	27.80	0.00	100.31	100.09	30.50	0.00	?UNDEF	?UNDEF	
7	7.10	0.00	102.53	?UNDEF	?UNDEF	?UNDEF	27.80	0.00	100.29	100.09	31.30	0.00	?UNDEF	?UNDEF	
8	8.40	0.00	095.98	?UNDEF	?UNDEF	?UNDEF	32.80	0.00	100.31	100.11	34.80	0.00	?UNDEF	?UNDEF	
9	8.30	0.00	095.70	?UNDEF	?UNDEF	?UNDEF	31.90	0.00	100.31	100.11	34.20	0.00	?UNDEF	?UNDEF	
10	8.30	0.00	095.74	?UNDEF	?UNDEF	?UNDEF	32.10	0.00	100.21	100.04	38.00	0.00	?UNDEF	?UNDEF	
11	8.30	0.00	095.75	?UNDEF	?UNDEF	?UNDEF	32.20	0.00	100.16	099.96	34.60	0.00	?UNDEF	?UNDEF	
12	8.30	0.00	095.79	?UNDEF	?UNDEF	?UNDEF	32.40	0.00	100.19	099.99	34.90	0.00	?UNDEF	?UNDEF	
13	8.40	0.00	095.75	?UNDEF	?UNDEF	?UNDEF	32.10	0.00	100.31	100.13	34.80	0.00	?UNDEF	?UNDEF	
14	8.30	0.00	095.72	?UNDEF	?UNDEF	?UNDEF	32.40	0.00	100.32	100.13	34.80	0.00	?UNDEF	?UNDEF	
15	8.30	0.00	095.72	?UNDEF	?UNDEF	?UNDEF	28.20	0.00	100.31	100.37	34.90	0.00	?UNDEF	?UNDEF	
16	8.30	0.00	095.69	?UNDEF	?UNDEF	?UNDEF	28.00	0.00	100.31	100.20	34.70	0.00	?UNDEF	?UNDEF	
17	8.30	0.00	095.46	?UNDEF	?UNDEF	?UNDEF	28.00	0.00	100.23	100.00	28.10	0.00	?UNDEF	?UNDEF	
18	8.40	0.00	095.40	?UNDEF	?UNDEF	?UNDEF	28.00	0.00	100.17	100.00	27.60	0.00	?UNDEF	?UNDEF	
19	8.30	0.00	095.46	?UNDEF	?UNDEF	?UNDEF	28.20	0.00	100.19	099.85	27.50	0.00	?UNDEF	?UNDEF	
20	8.10	0.00	095.35	?UNDEF	?UNDEF	?UNDEF	21.40	0.00	100.16	099.81	24.40	0.00	?UNDEF	?UNDEF	
21	6.90	0.00	095.31	?UNDEF	?UNDEF	?UNDEF	20.70	0.00	100.04	099.75	24.90	0.00	?UNDEF	?UNDEF	
22	4.40	0.00	097.28	?UNDEF	?UNDEF	?UNDEF	22.20	0.00	099.96	099.60	27.10	0.00	?UNDEF	?UNDEF	
23	2.40	0.00	101.92	?UNDEF	?UNDEF	?UNDEF	15.10	0.00	099.89	100.08	18.70	0.00	?UNDEF	?UNDEF	
24	1.30	0.00	098.57	?UNDEF	?UNDEF	?UNDEF	15.00	0.00	099.89	099.71	12.50	0.00	?UNDEF	?UNDEF	
	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT	
1	13.20	0.00	?UNDEF	?UNDEF	12.30	0.00	098.18	097.67	57.60	0.00	099.71	099.41	099.23	100.39	
2	2.50	0.00	?UNDEF	?UNDEF	9.20	0.00	098.25	097.71	59.50	0.00	099.70	099.45	099.26	100.46	
3	.30	0.00	?UNDEF	?UNDEF	9.00	0.00	098.34	097.80	67.30	0.00	099.83	099.53	099.36	100.41	
4	.60	0.00	?UNDEF	?UNDEF	9.00	0.00	098.33	097.91	68.60	0.00	099.89	099.48	099.44	100.47	
5	11.40	0.00	?UNDEF	?UNDEF	9.00	0.00	098.43	097.91	80.30	0.00	100.00	099.70	099.48	100.51	
6	12.00	0.00	?UNDEF	?UNDEF	10.80	0.00	098.49	097.92	106.70	0.00	099.99	099.70	099.56	100.43	
7	27.10	0.00	?UNDEF	?UNDEF	14.40	0.00	098.50	097.94	118.00	0.00	099.93	099.67	099.67	100.41	
8	37.00	0.00	?UNDEF	?UNDEF	25.20	0.00	098.42	098.00	116.10	0.00	099.82	099.54	099.73	100.33	
9	37.10	0.00	?UNDEF	?UNDEF	31.30	0.00	098.41	098.55	114.60	0.00	099.72	099.42	099.48	100.20	
10	36.90	0.00	?UNDEF	?UNDEF	31.70	0.00	098.32	098.18	115.00	0.00	099.61	099.29	099.37	100.11	
11	34.30	0.00	?UNDEF	?UNDEF	32.20	0.00	098.33	098.10	113.60	0.00	099.72	099.43	099.49	100.29	
12	34.20	0.00	?UNDEF	?UNDEF	31.70	0.00	098.33	098.31	108.50	0.00	099.89	099.54	099.63	100.57	
13	34.70	0.00	?UNDEF	?UNDEF	31.60	0.00	098.33	098.82	106.60	0.00	100.28	099.56	099.75	100.80	
14	34.10	0.00	?UNDEF	?UNDEF	31.70	0.00	098.37	098.60	107.30	0.00	100.20	099.76	099.92	101.04	
15	35.50	0.00	?UNDEF	?UNDEF	31.60	0.00	098.50	098.53	107.60	0.00	100.17	100.12	100.03	101.22	
16	34.30	0.00	?UNDEF	?UNDEF	31.60	0.00	098.48	098.33	113.50	0.00	100.14	099.93	099.86	101.22	
17	34.20	0.00	?UNDEF	?UNDEF	32.00	0.00	098.41	098.07	114.80	0.00	100.07	099.88	099.69	101.30	
18	34.40	0.00	?UNDEF	?UNDEF	31.50	0.00	098.49	097.93	115.60	0.00	100.07	099.90	099.53	101.22	
19	34.50	0.00	?UNDEF	?UNDEF	31.50	0.00	098.41	097.81	115.20	0.00	099.97	099.79	099.31	101.21	
20	34.40	0.00	?UNDEF	?UNDEF	33.00	0.00	098.27	097.68	110.80	0.00	099.91	099.70	099.26	101.00	
21	34.40	0.00	?UNDEF	?UNDEF	31.40	0.00	098.17	097.65	110.80	0.00	099.86	099.67	099.34	100.93	
22	30.90	0.00	?UNDEF	?UNDEF	27.80	0.00	098.12	098.04	109.50	0.00	099.78	099.61	099.30	100.71	
23	20.50	0.00	?UNDEF	?UNDEF	18.70	0.00	098.09	097.77	102.60	0.00	099.75	099.60	099.26	100.55	
24	13.60	0.00	?UNDEF	?UNDEF	12.30	0.00	098.03	097.46	97.50	0.00	099.65	099.57	099.27	100.55	

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	DWORSHAK			STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	2.50	0.00	096.03	?UNDEF	?UNDEF	?UNDEF	13.20	0.00	099.61	099.66	15.10	0.00	?UNDEF	?UNDEF
2	2.50	0.00	095.99	?UNDEF	?UNDEF	?UNDEF	1.90	0.00	099.61	100.05	1.90	0.00	?UNDEF	?UNDEF
3	2.50	0.00	095.61	?UNDEF	?UNDEF	?UNDEF	1.50	0.00	099.61	099.97	0.00	0.00	?UNDEF	?UNDEF
4	2.60	0.00	095.64	?UNDEF	?UNDEF	?UNDEF	18.20	0.00	099.51	100.11	1.30	0.00	?UNDEF	?UNDEF
5	2.50	0.00	095.81	?UNDEF	?UNDEF	?UNDEF	33.20	0.00	099.52	100.00	18.30	0.00	?UNDEF	?UNDEF
6	4.80	0.00	098.66	?UNDEF	?UNDEF	?UNDEF	37.90	0.00	099.53	099.91	36.90	0.00	?UNDEF	?UNDEF
7	7.20	0.00	098.76	?UNDEF	?UNDEF	?UNDEF	38.90	0.00	099.55	099.73	37.90	0.00	?UNDEF	?UNDEF
8	8.30	0.00	095.25	?UNDEF	?UNDEF	?UNDEF	37.60	0.00	099.59	099.79	41.40	0.00	?UNDEF	?UNDEF
9	8.40	0.00	095.14	?UNDEF	?UNDEF	?UNDEF	27.30	0.00	099.56	099.77	38.40	0.00	?UNDEF	?UNDEF
10	8.30	0.00	095.58	?UNDEF	?UNDEF	?UNDEF	26.80	0.00	099.65	099.89	35.10	0.00	?UNDEF	?UNDEF
11	8.30	0.00	095.47	?UNDEF	?UNDEF	?UNDEF	26.80	0.00	099.69	099.92	34.70	0.00	?UNDEF	?UNDEF
12	8.30	0.00	095.55	?UNDEF	?UNDEF	?UNDEF	23.10	0.00	099.77	100.23	30.30	0.00	?UNDEF	?UNDEF
13	8.40	0.00	095.59	?UNDEF	?UNDEF	?UNDEF	21.20	0.00	100.16	000.00	29.70	0.00	?UNDEF	?UNDEF
14	8.30	0.00	095.61	?UNDEF	?UNDEF	?UNDEF	21.30	0.00	100.11	099.88	29.70	0.00	?UNDEF	?UNDEF
15	8.30	0.00	095.63	?UNDEF	?UNDEF	?UNDEF	21.30	0.00	100.19	099.96	32.80	0.00	?UNDEF	?UNDEF
16	8.30	0.00	095.51	?UNDEF	?UNDEF	?UNDEF	21.20	0.00	100.01	099.93	24.70	0.00	?UNDEF	?UNDEF
17	8.30	0.00	095.56	?UNDEF	?UNDEF	?UNDEF	21.70	0.00	100.01	099.79	24.40	0.00	?UNDEF	?UNDEF
18	8.50	0.00	095.56	?UNDEF	?UNDEF	?UNDEF	21.30	0.00	100.03	099.85	24.80	0.00	?UNDEF	?UNDEF
19	8.30	0.00	095.56	?UNDEF	?UNDEF	?UNDEF	21.20	0.00	100.05	099.89	24.40	0.00	?UNDEF	?UNDEF
20	8.20	0.00	095.40	?UNDEF	?UNDEF	?UNDEF	21.30	0.00	100.08	099.85	30.40	0.00	?UNDEF	?UNDEF
21	6.80	0.00	095.37	?UNDEF	?UNDEF	?UNDEF	21.20	0.00	100.12	099.91	27.70	0.00	?UNDEF	?UNDEF
22	4.40	0.00	097.10	?UNDEF	?UNDEF	?UNDEF	21.60	0.00	100.08	099.87	30.30	0.00	?UNDEF	?UNDEF
23	2.60	0.00	101.93	?UNDEF	?UNDEF	?UNDEF	20.80	0.00	100.09	099.87	20.90	0.00	?UNDEF	?UNDEF
24	2.50	0.00	097.92	?UNDEF	?UNDEF	?UNDEF	16.90	0.00	100.11	099.76	14.00	0.00	?UNDEF	?UNDEF

HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO	
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT
1	11.60	0.00	?UNDEF	?UNDEF	10.90	0.00	097.64	097.11	52.30	0.00	099.13	098.83	098.48	100.09
2	1.30	0.00	?UNDEF	?UNDEF	10.80	0.00	097.67	097.11	50.20	0.00	099.15	098.83	098.54	100.09
3	.30	0.00	?UNDEF	?UNDEF	11.00	0.00	097.66	097.11	53.50	0.00	099.12	098.81	098.45	099.93
4	1.40	0.00	?UNDEF	?UNDEF	11.00	0.00	097.71	097.13	88.40	0.00	099.16	098.89	098.50	099.99
5	18.40	0.00	?UNDEF	?UNDEF	21.40	0.00	097.67	097.22	108.90	0.00	099.16	098.68	098.75	099.97
6	36.20	0.00	?UNDEF	?UNDEF	35.40	0.00	097.67	097.22	128.00	0.00	099.12	098.68	098.89	099.83
7	36.90	0.00	?UNDEF	?UNDEF	37.70	0.00	097.80	097.35	146.80	0.00	099.20	098.73	098.76	099.82
8	39.20	0.00	?UNDEF	?UNDEF	40.20	0.00	097.80	097.36	147.90	0.00	098.89	098.71	098.65	099.67
9	39.40	0.00	?UNDEF	?UNDEF	41.10	0.00	097.76	097.66	148.00	0.00	099.02	098.71	098.71	099.66
10	39.10	0.00	?UNDEF	?UNDEF	41.80	0.00	097.76	097.80	147.90	0.00	099.15	098.67	098.84	099.79
11	39.00	0.00	?UNDEF	?UNDEF	40.20	0.00	097.91	097.86	148.60	0.00	099.15	098.81	098.87	099.96
12	36.60	0.00	?UNDEF	?UNDEF	34.80	0.00	097.94	097.84	147.80	0.00	099.30	098.87	098.93	100.03
13	35.60	0.00	?UNDEF	?UNDEF	34.40	0.00	098.01	098.28	128.90	0.00	099.54	098.94	099.17	100.18
14	34.30	0.00	?UNDEF	?UNDEF	35.10	0.00	098.10	098.03	124.50	0.00	099.78	099.15	099.35	100.54
15	33.70	0.00	?UNDEF	?UNDEF	35.80	0.00	098.09	097.97	124.40	0.00	099.75	099.20	099.41	100.68
16	25.80	0.00	?UNDEF	?UNDEF	31.10	0.00	098.07	097.81	124.10	0.00	099.89	099.20	099.28	100.81
17	25.10	0.00	?UNDEF	?UNDEF	30.90	0.00	098.06	097.81	124.30	0.00	099.76	099.31	099.37	100.81
18	25.30	0.00	?UNDEF	?UNDEF	31.00	0.00	098.12	097.94	124.80	0.00	099.92	099.32	099.27	100.79
19	32.90	0.00	?UNDEF	?UNDEF	31.00	0.00	098.12	097.75	138.70	0.00	099.82	099.37	099.20	100.88
20	36.60	0.00	?UNDEF	?UNDEF	36.50	0.00	098.14	097.67	140.10	0.00	099.83	099.40	099.23	100.78
21	37.00	0.00	?UNDEF	?UNDEF	34.50	0.00	098.16	097.61	136.50	0.00	099.82	099.39	099.19	100.76
22	36.60	0.00	?UNDEF	?UNDEF	33.80	0.00	098.14	098.24	83.00	0.00	099.80	099.39	099.03	100.58
23	27.30	0.00	?UNDEF	?UNDEF	27.30	0.00	098.27	097.68	78.30	0.00	099.78	099.32	098.98	100.46
24	14.40	0.00	?UNDEF	?UNDEF	12.90	0.00	098.09	097.58	58.60	0.00	099.76	099.32	099.16	100.46

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HOUR	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
	TOTAL DISCH.	SPILL	GAS %SAT	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH	SPILL	GAS FB	%SAT TAILW.	TOTAL DISCH	SPILL	GAS FB	%SAT. TAILW.
	KCFS	KCFS	TAILW.	%SAT	%SAT	%SAT	KCFS	KCFS			KCFS	KCFS		TAILW.
1	2.50	0.00	095.89	?UNDEF	?UNDEF	?UNDEF	13.80	0.00	099.80	100.29	12.10	0.00	?UNDEF	?UNDEF
2	2.50	0.00	096.64	?UNDEF	?UNDEF	?UNDEF	13.70	0.00	099.76	100.24	12.00	0.00	?UNDEF	?UNDEF
3	2.50	0.00	096.49	?UNDEF	?UNDEF	?UNDEF	13.60	0.00	099.75	100.09	12.00	0.00	?UNDEF	?UNDEF
4	2.60	0.00	096.33	?UNDEF	?UNDEF	?UNDEF	13.60	0.00	099.76	100.03	12.00	0.00	?UNDEF	?UNDEF
5	2.70	0.00	096.31	?UNDEF	?UNDEF	?UNDEF	13.80	0.00	099.68	099.88	12.00	0.00	?UNDEF	?UNDEF
6	4.80	0.00	099.24	?UNDEF	?UNDEF	?UNDEF	13.70	0.00	099.69	099.85	12.60	0.00	?UNDEF	?UNDEF
7	7.20	0.00	098.54	?UNDEF	?UNDEF	?UNDEF	17.00	0.00	099.67	099.84	17.50	0.00	?UNDEF	?UNDEF
8	8.30	0.00	095.19	?UNDEF	?UNDEF	?UNDEF	19.60	0.00	099.65	099.85	22.50	0.00	?UNDEF	?UNDEF
9	8.50	0.00	095.19	?UNDEF	?UNDEF	?UNDEF	19.80	0.00	099.77	099.84	19.50	0.00	?UNDEF	?UNDEF
10	8.30	0.00	095.17	?UNDEF	?UNDEF	?UNDEF	19.70	0.00	099.59	099.81	19.50	0.00	?UNDEF	?UNDEF
11	8.30	0.00	095.19	?UNDEF	?UNDEF	?UNDEF	20.10	0.00	099.73	099.93	19.40	0.00	?UNDEF	?UNDEF
12	8.30	0.00	095.23	?UNDEF	?UNDEF	?UNDEF	19.80	0.00	099.76	099.96	19.40	0.00	?UNDEF	?UNDEF
13	8.30	0.00	095.09	?UNDEF	?UNDEF	?UNDEF	19.80	0.00	099.79	099.97	19.40	0.00	?UNDEF	?UNDEF
14	8.50	0.00	095.28	?UNDEF	?UNDEF	?UNDEF	19.80	0.00	099.85	100.00	19.40	0.00	?UNDEF	?UNDEF
15	8.30	0.00	095.24	?UNDEF	?UNDEF	?UNDEF	20.10	0.00	100.00	100.01	19.40	0.00	?UNDEF	?UNDEF
16	8.30	0.00	095.12	?UNDEF	?UNDEF	?UNDEF	19.70	0.00	099.84	099.89	19.90	0.00	?UNDEF	?UNDEF
17	8.30	0.00	095.09	?UNDEF	?UNDEF	?UNDEF	23.60	0.00	099.84	100.19	24.90	0.00	?UNDEF	?UNDEF
18	8.50	0.00	095.10	?UNDEF	?UNDEF	?UNDEF	25.10	0.00	099.81	099.88	25.30	0.00	?UNDEF	?UNDEF
19	8.30	0.00	095.09	?UNDEF	?UNDEF	?UNDEF	24.80	0.00	099.57	099.87	27.80	0.00	?UNDEF	?UNDEF
20	8.20	0.00	095.07	?UNDEF	?UNDEF	?UNDEF	25.40	0.00	099.56	099.76	25.10	0.00	?UNDEF	?UNDEF
21	6.90	0.00	094.97	?UNDEF	?UNDEF	?UNDEF	38.00	0.00	099.56	099.76	37.10	0.00	?UNDEF	?UNDEF
22	4.50	0.00	097.10	?UNDEF	?UNDEF	?UNDEF	36.60	0.00	099.69	099.63	36.60	0.00	?UNDEF	?UNDEF
23	2.60	0.00	101.75	?UNDEF	?UNDEF	?UNDEF	19.00	0.00	099.57	099.79	19.30	0.00	?UNDEF	?UNDEF
24	2.50	0.00	097.22	?UNDEF	?UNDEF	?UNDEF	11.80	0.00	099.61	099.80	12.30	0.00	?UNDEF	?UNDEF
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO	
	TOTAL DISCH	SPILL	GAS FB	%SAT. TAILW.	TOTAL DISCH	SPILL	GAS FB	%SAT. TAILW.	TOTAL DISCH	SPILL	GAS OR FB	%SAT. TAILW.	GAS % SAT	
	KCFS	KCFS			KCFS	KCFS			KCFS	KCFS				
1	14.00	0.00	?UNDEF	?UNDEF	9.70	0.00	097.41	096.85	74.00	0.00	098.61	098.04	098.13	099.63
2	12.40	0.00	?UNDEF	?UNDEF	9.50	0.00	097.40	096.84	71.60	0.00	098.60	098.00	098.08	099.59
3	12.40	0.00	?UNDEF	?UNDEF	9.50	0.00	097.36	096.81	71.50	0.00	098.38	098.00	098.03	099.58
4	12.40	0.00	?UNDEF	?UNDEF	11.70	0.00	097.32	096.77	72.40	0.00	098.44	097.99	098.07	099.56
5	12.40	0.00	?UNDEF	?UNDEF	13.40	0.00	097.28	096.74	98.90	0.00	098.38	097.96	098.02	099.53
6	12.60	0.00	?UNDEF	?UNDEF	12.50	0.00	097.30	096.75	111.40	0.00	098.39	097.96	098.16	099.37
7	17.70	0.00	?UNDEF	?UNDEF	17.90	0.00	097.25	096.85	124.80	0.00	098.35	097.93	097.99	099.35
8	19.80	0.00	?UNDEF	?UNDEF	18.90	0.00	097.25	097.00	138.70	0.00	098.35	097.96	097.99	099.37
9	20.30	0.00	?UNDEF	?UNDEF	19.10	0.00	097.39	097.81	135.00	0.00	098.51	097.92	098.10	099.48
10	20.20	0.00	?UNDEF	?UNDEF	20.30	0.00	097.35	097.51	125.20	0.00	098.60	097.92	098.25	099.61
11	20.30	0.00	?UNDEF	?UNDEF	22.20	0.00	097.36	097.63	125.10	0.00	098.77	097.93	098.39	099.71
12	20.10	0.00	?UNDEF	?UNDEF	21.30	0.00	097.43	097.94	114.10	0.00	098.85	098.28	098.59	099.91
13	21.70	0.00	?UNDEF	?UNDEF	20.40	0.00	097.45	098.17	113.10	0.00	098.93	098.48	098.79	100.31
14	21.80	0.00	?UNDEF	?UNDEF	21.70	0.00	097.53	098.25	113.20	0.00	098.95	098.69	098.86	100.65
15	22.70	0.00	?UNDEF	?UNDEF	25.30	0.00	097.54	098.81	113.20	0.00	099.08	098.83	098.75	100.80
16	24.30	0.00	?UNDEF	?UNDEF	23.90	0.00	097.67	097.94	112.90	0.00	099.12	098.85	098.67	100.93
17	27.40	0.00	?UNDEF	?UNDEF	28.70	0.00	097.65	097.65	113.70	0.00	099.28	098.88	098.67	100.97
18	27.20	0.00	?UNDEF	?UNDEF	28.40	0.00	097.69	097.37	136.50	0.00	099.33	098.78	098.57	100.96
19	27.20	0.00	?UNDEF	?UNDEF	29.90	0.00	097.54	097.41	135.70	0.00	099.42	098.75	098.53	100.82
20	27.50	0.00	?UNDEF	?UNDEF	28.60	0.00	097.58	097.33	134.50	0.00	099.33	098.78	098.57	100.75
21	38.30	0.00	?UNDEF	?UNDEF	33.80	0.00	097.61	097.34	133.30	0.00	099.34	098.76	098.57	100.60
22	36.70	0.00	?UNDEF	?UNDEF	34.10	0.00	097.59	097.44	102.30	0.00	099.17	098.76	098.56	100.45
23	19.40	0.00	?UNDEF	?UNDEF	20.70	0.00	097.62	097.34	85.20	0.00	099.21	098.76	098.61	100.34
24	11.90	0.00	?UNDEF	?UNDEF	11.60	0.00	097.63	097.22	53.40	0.00	099.27	098.83	098.47	100.34

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DWRSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.
1	2.50	0.00	096.78	?UNDEF	?UNDEF	?UNDEF	19.80	0.00	100.19	100.37	12.30	0.00	?UNDEF	?UNDEF
2	2.50	0.00	096.99	?UNDEF	?UNDEF	?UNDEF	18.80	0.00	099.97	100.34	12.00	0.00	?UNDEF	?UNDEF
3	2.50	0.00	096.64	?UNDEF	?UNDEF	?UNDEF	11.80	0.00	099.95	100.28	15.00	0.00	?UNDEF	?UNDEF
4	2.60	0.00	096.48	?UNDEF	?UNDEF	?UNDEF	11.50	0.00	100.11	100.12	12.10	0.00	?UNDEF	?UNDEF
5	2.70	0.00	096.55	?UNDEF	?UNDEF	?UNDEF	11.90	0.00	099.93	100.12	12.20	0.00	?UNDEF	?UNDEF
6	4.80	0.00	099.60	?UNDEF	?UNDEF	?UNDEF	18.70	0.00	099.72	100.04	18.50	0.00	?UNDEF	?UNDEF
7	7.20	0.00	098.92	?UNDEF	?UNDEF	?UNDEF	19.20	0.00	099.73	100.05	19.20	0.00	?UNDEF	?UNDEF
8	8.20	0.00	095.32	?UNDEF	?UNDEF	?UNDEF	25.00	0.00	099.71	099.97	24.50	0.00	?UNDEF	?UNDEF
9	8.50	0.00	095.15	?UNDEF	?UNDEF	?UNDEF	25.80	0.00	099.71	099.97	25.30	0.00	?UNDEF	?UNDEF
10	8.30	0.00	095.15	?UNDEF	?UNDEF	?UNDEF	26.20	0.00	099.85	100.00	30.10	0.00	?UNDEF	?UNDEF
11	8.30	0.00	095.20	?UNDEF	?UNDEF	?UNDEF	25.70	0.00	099.81	100.01	31.10	0.00	?UNDEF	?UNDEF
12	8.30	0.00	095.54	?UNDEF	?UNDEF	?UNDEF	25.50	0.00	099.75	100.09	34.60	0.00	?UNDEF	?UNDEF
13	8.30	0.00	095.50	?UNDEF	?UNDEF	?UNDEF	25.50	0.00	099.87	100.15	34.70	0.00	?UNDEF	?UNDEF
14	8.50	0.00	095.39	?UNDEF	?UNDEF	?UNDEF	25.50	0.00	100.04	100.27	37.70	0.00	?UNDEF	?UNDEF
15	8.30	0.00	095.54	?UNDEF	?UNDEF	?UNDEF	25.90	0.00	100.12	100.12	34.30	0.00	?UNDEF	?UNDEF
16	8.30	0.00	095.44	?UNDEF	?UNDEF	?UNDEF	25.30	0.00	100.12	100.13	34.00	0.00	?UNDEF	?UNDEF
17	8.10	0.00	095.43	?UNDEF	?UNDEF	?UNDEF	25.90	0.00	099.99	100.20	34.30	0.00	?UNDEF	?UNDEF
18	8.50	0.00	095.33	?UNDEF	?UNDEF	?UNDEF	41.90	0.00	099.84	100.45	42.80	0.00	?UNDEF	?UNDEF
19	8.30	0.00	095.43	?UNDEF	?UNDEF	?UNDEF	40.50	0.00	099.89	100.21	43.30	0.00	?UNDEF	?UNDEF
20	8.20	0.00	095.32	?UNDEF	?UNDEF	?UNDEF	39.70	0.00	099.91	100.11	44.70	0.00	?UNDEF	?UNDEF
21	6.90	0.00	095.31	?UNDEF	?UNDEF	?UNDEF	39.60	0.00	099.91	100.11	44.30	0.00	?UNDEF	?UNDEF
22	4.40	0.00	097.18	?UNDEF	?UNDEF	?UNDEF	34.10	0.00	099.91	100.13	29.90	0.00	?UNDEF	?UNDEF
23	2.60	0.00	101.85	?UNDEF	?UNDEF	?UNDEF	19.00	0.00	099.93	100.86	13.90	0.00	?UNDEF	?UNDEF
24	2.50	0.00	097.00	?UNDEF	?UNDEF	?UNDEF	14.20	0.00	099.85	100.70	12.10	0.00	?UNDEF	?UNDEF
LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT
1	12.00	0.00	?UNDEF	?UNDEF	11.20	0.00	097.36	096.54	52.00	0.00	098.14	097.81	097.75	098.88
2	11.70	0.00	?UNDEF	?UNDEF	10.90	0.00	097.27	096.48	51.50	0.00	098.09	097.75	097.57	098.74
3	11.70	0.00	?UNDEF	?UNDEF	12.60	0.00	097.40	096.48	51.60	0.00	098.05	097.75	097.54	098.72
4	11.90	0.00	?UNDEF	?UNDEF	11.00	0.00	097.23	096.30	51.90	0.00	098.03	097.71	097.50	098.56
5	11.90	0.00	?UNDEF	?UNDEF	10.90	0.00	097.27	097.10	60.70	0.00	098.00	097.55	097.46	098.50
6	18.20	0.00	?UNDEF	?UNDEF	12.80	0.00	097.25	097.23	114.10	0.00	097.98	097.62	097.45	098.51
7	18.90	0.00	?UNDEF	?UNDEF	26.70	0.00	097.38	096.98	163.20	0.00	098.09	097.68	097.60	098.51
8	26.90	0.00	?UNDEF	?UNDEF	29.60	0.00	097.35	096.96	161.30	0.00	098.09	097.65	097.71	098.68
9	25.70	0.00	?UNDEF	?UNDEF	31.60	0.00	097.48	096.97	160.80	0.00	098.20	097.60	097.67	098.81
10	28.90	0.00	?UNDEF	?UNDEF	31.10	0.00	097.33	096.83	164.50	0.00	098.20	097.62	097.80	098.90
11	28.90	0.00	?UNDEF	?UNDEF	32.60	0.00	097.33	096.88	166.10	0.00	098.33	097.75	097.86	099.07
12	35.60	0.00	?UNDEF	?UNDEF	31.10	0.00	097.38	096.93	163.80	0.00	098.43	097.86	098.03	099.42
13	37.80	0.00	?UNDEF	?UNDEF	33.80	0.00	097.63	097.12	160.30	0.00	098.47	098.02	098.22	099.57
14	38.00	0.00	?UNDEF	?UNDEF	34.40	0.00	097.67	097.69	150.80	0.00	098.68	098.11	098.31	099.76
15	40.70	0.00	?UNDEF	?UNDEF	36.50	0.00	097.69	097.33	148.20	0.00	098.68	098.11	098.32	099.82
16	39.90	0.00	?UNDEF	?UNDEF	38.20	0.00	000.00	097.18	147.40	0.00	098.82	098.11	098.22	099.96
17	43.30	0.00	?UNDEF	?UNDEF	41.40	0.00	097.49	097.04	148.80	0.00	098.85	098.16	098.21	099.97
18	44.10	0.00	?UNDEF	?UNDEF	43.70	0.00	097.46	097.42	147.90	0.00	098.82	098.15	098.08	099.99
19	44.10	0.00	?UNDEF	?UNDEF	43.40	0.00	097.46	097.13	129.60	0.00	098.81	098.11	098.09	099.95
20	43.70	0.00	?UNDEF	?UNDEF	35.30	0.00	097.46	097.00	128.70	0.00	098.82	098.01	098.06	099.86
21	25.90	0.00	?UNDEF	?UNDEF	25.00	0.00	097.45	097.05	128.80	0.00	098.82	098.10	098.18	099.86
22	24.50	0.00	?UNDEF	?UNDEF	24.00	0.00	097.45	097.02	128.10	0.00	098.68	098.00	098.17	099.70
23	13.30	0.00	?UNDEF	?UNDEF	11.80	0.00	097.41	096.98	128.40	0.00	098.74	098.06	098.14	099.65
24	12.30	0.00	?UNDEF	?UNDEF	9.60	0.00	097.40	097.00	127.00	0.00	098.59	097.92	098.13	099.65

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DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.
1	2.50	0.00	098.21	?UNDEF	?UNDEF	?UNDEF	20.60	0.00	101.48	101.72	24.10	0.00	?UNDEF	?UNDEF
2	2.60	0.00	097.59	?UNDEF	?UNDEF	?UNDEF	20.70	0.00	101.29	101.62	21.80	0.00	?UNDEF	?UNDEF
3	2.50	0.00	097.47	?UNDEF	?UNDEF	?UNDEF	20.30	0.00	101.22	101.54	21.20	0.00	?UNDEF	?UNDEF
4	2.50	0.00	097.56	?UNDEF	?UNDEF	?UNDEF	20.70	0.00	101.28	101.61	21.20	0.00	?UNDEF	?UNDEF
5	2.70	0.00	097.36	?UNDEF	?UNDEF	?UNDEF	29.00	0.00	101.39	101.70	21.00	0.00	?UNDEF	?UNDEF
6	4.70	0.00	100.54	?UNDEF	?UNDEF	?UNDEF	38.50	0.00	101.56	101.61	29.30	0.00	?UNDEF	?UNDEF
7	7.00	0.00	102.04	?UNDEF	?UNDEF	?UNDEF	38.90	0.00	101.59	101.68	38.90	0.00	?UNDEF	?UNDEF
8	8.30	0.00	096.35	?UNDEF	?UNDEF	?UNDEF	38.90	0.00	101.56	101.65	39.30	0.00	?UNDEF	?UNDEF
9	8.30	0.00	096.22	?UNDEF	?UNDEF	?UNDEF	37.50	0.00	101.45	101.35	39.30	0.00	?UNDEF	?UNDEF
10	8.30	0.00	096.19	?UNDEF	?UNDEF	?UNDEF	36.00	0.00	101.33	101.22	39.40	0.00	?UNDEF	?UNDEF
11	8.30	0.00	096.29	?UNDEF	?UNDEF	?UNDEF	36.20	0.00	101.25	101.24	39.10	0.00	?UNDEF	?UNDEF
12	8.30	0.00	096.24	?UNDEF	?UNDEF	?UNDEF	35.90	0.00	101.19	101.38	39.20	0.00	?UNDEF	?UNDEF
13	8.50	0.00	096.23	?UNDEF	?UNDEF	?UNDEF	28.80	0.00	101.21	101.39	39.50	0.00	?UNDEF	?UNDEF
14	8.30	0.00	096.25	?UNDEF	?UNDEF	?UNDEF	27.90	0.00	101.07	101.22	35.10	0.00	?UNDEF	?UNDEF
15	8.30	0.00	096.07	?UNDEF	?UNDEF	?UNDEF	27.90	0.00	101.07	101.11	35.30	0.00	?UNDEF	?UNDEF
16	8.30	0.00	095.91	?UNDEF	?UNDEF	?UNDEF	27.70	0.00	100.99	101.16	38.60	0.00	?UNDEF	?UNDEF
17	8.50	0.00	095.86	?UNDEF	?UNDEF	?UNDEF	35.30	0.00	100.90	101.36	36.40	0.00	?UNDEF	?UNDEF
18	8.40	0.00	095.77	?UNDEF	?UNDEF	?UNDEF	36.50	0.00	100.86	101.19	40.50	0.00	?UNDEF	?UNDEF
19	8.30	0.00	095.86	?UNDEF	?UNDEF	?UNDEF	37.40	0.00	100.75	100.93	41.50	0.00	?UNDEF	?UNDEF
20	8.30	0.00	095.63	?UNDEF	?UNDEF	?UNDEF	38.30	0.00	100.52	100.75	42.50	0.00	?UNDEF	?UNDEF
21	7.10	0.00	095.58	?UNDEF	?UNDEF	?UNDEF	39.80	0.00	100.48	100.62	45.50	0.00	?UNDEF	?UNDEF
22	4.60	0.00	097.90	?UNDEF	?UNDEF	?UNDEF	37.90	0.00	100.32	100.56	40.40	0.00	?UNDEF	?UNDEF
23	2.60	0.00	104.95	?UNDEF	?UNDEF	?UNDEF	38.10	0.00	100.27	100.41	28.30	0.00	?UNDEF	?UNDEF
24	2.50	0.00	099.52	?UNDEF	?UNDEF	?UNDEF	30.60	0.00	100.20	100.24	19.30	0.00	?UNDEF	?UNDEF
LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT
1	22.70	0.00	?UNDEF	?UNDEF	26.70	0.00	098.40	097.61	94.70	0.00	099.34	099.06	098.95	100.03
2	23.00	0.00	?UNDEF	?UNDEF	20.10	0.00	098.33	097.52	64.90	0.00	099.48	099.16	099.07	099.95
3	22.60	0.00	?UNDEF	?UNDEF	21.30	0.00	098.45	097.66	65.20	0.00	099.44	099.13	098.90	099.97
4	22.70	0.00	?UNDEF	?UNDEF	21.10	0.00	098.49	097.69	76.50	0.00	099.58	099.23	099.00	100.07
5	22.80	0.00	?UNDEF	?UNDEF	22.50	0.00	098.49	097.82	98.50	0.00	*****	099.31	099.20	100.04
6	29.20	0.00	?UNDEF	?UNDEF	30.20	0.00	098.44	097.90	126.40	0.00	099.51	099.22	099.13	100.00
7	39.70	0.00	?UNDEF	?UNDEF	39.60	0.00	098.42	097.87	143.90	0.00	099.28	099.01	099.03	099.83
8	40.40	0.00	?UNDEF	?UNDEF	41.50	0.00	098.41	097.56	146.30	0.00	099.07	098.82	098.86	099.66
9	40.30	0.00	?UNDEF	?UNDEF	40.00	0.00	098.23	097.45	145.70	0.00	099.10	098.71	098.74	099.50
10	40.10	0.00	?UNDEF	?UNDEF	39.70	0.00	098.08	097.64	136.10	0.00	099.04	098.58	098.78	099.41
11	40.60	0.00	?UNDEF	?UNDEF	40.30	0.00	098.06	097.81	126.70	0.00	099.17	098.69	098.83	099.51
12	39.80	0.00	?UNDEF	?UNDEF	39.40	0.00	098.04	097.94	122.80	0.00	099.21	098.81	098.94	099.80
13	41.20	0.00	?UNDEF	?UNDEF	40.90	0.00	098.17	098.27	116.70	0.00	099.25	098.81	098.90	100.01
14	39.80	0.00	?UNDEF	?UNDEF	40.90	0.00	098.11	098.48	114.00	0.00	099.21	098.91	098.91	100.32
15	39.40	0.00	?UNDEF	?UNDEF	39.00	0.00	098.00	097.98	106.60	0.00	099.13	098.81	098.81	100.30
16	39.40	0.00	?UNDEF	?UNDEF	39.70	0.00	098.10	097.76	99.20	0.00	099.00	098.60	098.59	100.36
17	40.90	0.00	?UNDEF	?UNDEF	38.90	0.00	097.96	097.50	101.10	0.00	098.82	098.39	098.42	100.26
18	41.70	0.00	?UNDEF	?UNDEF	41.40	0.00	097.91	097.20	109.10	0.00	098.75	098.30	098.20	100.05
19	42.60	0.00	?UNDEF	?UNDEF	41.50	0.00	097.79	097.11	112.10	0.00	098.67	098.22	098.16	099.88
20	41.70	0.00	?UNDEF	?UNDEF	41.60	0.00	097.78	097.03	115.40	0.00	098.58	098.13	098.07	099.78
21	41.70	0.00	?UNDEF	?UNDEF	41.30	0.00	097.75	096.93	112.80	0.00	098.47	098.03	097.98	099.51
22	41.50	0.00	?UNDEF	?UNDEF	41.30	0.00	097.50	096.83	109.70	0.00	098.39	097.93	097.89	099.46
23	27.80	0.00	?UNDEF	?UNDEF	28.10	0.00	097.41	096.74	85.00	0.00	098.30	097.87	097.80	099.24
24	20.20	0.00	?UNDEF	?UNDEF	20.50	0.00	097.47	096.69	66.70	0.00	098.22	097.80	097.75	099.24

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	DWRSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	2.50	0.00	097.58	?UNDEF	?UNDEF	?UNDEF	21.30	0.00	100.44	100.74	25.20	0.00	?UNDEF	?UNDEF
2	2.60	0.00	097.35	?UNDEF	?UNDEF	?UNDEF	19.40	0.00	100.45	100.60	21.20	0.00	?UNDEF	?UNDEF
3	2.50	0.00	097.28	?UNDEF	?UNDEF	?UNDEF	19.20	0.00	100.61	100.69	20.90	0.00	?UNDEF	?UNDEF
4	2.50	0.00	097.08	?UNDEF	?UNDEF	?UNDEF	19.50	0.00	100.61	100.69	20.90	0.00	?UNDEF	?UNDEF
5	2.70	0.00	097.25	?UNDEF	?UNDEF	?UNDEF	19.20	0.00	100.68	100.73	21.00	0.00	?UNDEF	?UNDEF
6	4.70	0.00	100.46	?UNDEF	?UNDEF	?UNDEF	21.20	0.00	100.68	100.76	21.00	0.00	?UNDEF	?UNDEF
7	7.30	0.00	099.81	?UNDEF	?UNDEF	?UNDEF	21.40	0.00	100.72	100.63	21.00	0.00	?UNDEF	?UNDEF
8	8.00	0.00	096.15	?UNDEF	?UNDEF	?UNDEF	21.40	0.00	100.73	100.95	21.20	0.00	?UNDEF	?UNDEF
9	8.30	0.00	095.88	?UNDEF	?UNDEF	?UNDEF	28.00	0.00	100.76	100.81	27.20	0.00	?UNDEF	?UNDEF
10	8.30	0.00	096.03	?UNDEF	?UNDEF	?UNDEF	27.60	0.00	100.82	100.85	28.10	0.00	?UNDEF	?UNDEF
11	8.30	0.00	095.98	?UNDEF	?UNDEF	?UNDEF	27.50	0.00	100.82	100.89	28.90	0.00	?UNDEF	?UNDEF
12	8.50	0.00	096.23	?UNDEF	?UNDEF	?UNDEF	27.60	0.00	100.90	100.97	29.50	0.00	?UNDEF	?UNDEF
13	8.40	0.00	096.34	?UNDEF	?UNDEF	?UNDEF	28.10	0.00	100.99	101.07	31.90	0.00	?UNDEF	?UNDEF
14	8.40	0.00	096.42	?UNDEF	?UNDEF	?UNDEF	27.60	0.00	101.17	101.14	30.40	0.00	?UNDEF	?UNDEF
15	8.30	0.00	096.43	?UNDEF	?UNDEF	?UNDEF	27.50	0.00	101.22	101.15	33.50	0.00	?UNDEF	?UNDEF
16	8.30	0.00	096.32	?UNDEF	?UNDEF	?UNDEF	27.50	0.00	101.44	101.22	30.60	0.00	?UNDEF	?UNDEF
17	8.50	0.00	096.21	?UNDEF	?UNDEF	?UNDEF	27.50	0.00	101.45	101.23	34.80	0.00	?UNDEF	?UNDEF
18	8.40	0.00	096.26	?UNDEF	?UNDEF	?UNDEF	30.10	0.00	101.50	101.43	32.00	0.00	?UNDEF	?UNDEF
19	8.30	0.00	096.21	?UNDEF	?UNDEF	?UNDEF	33.30	0.00	101.56	101.49	34.30	0.00	?UNDEF	?UNDEF
20	8.30	0.00	096.34	?UNDEF	?UNDEF	?UNDEF	30.10	0.00	101.68	101.61	32.30	0.00	?UNDEF	?UNDEF
21	7.10	0.00	096.41	?UNDEF	?UNDEF	?UNDEF	29.10	1.70	101.68	101.61	31.90	0.00	?UNDEF	?UNDEF
22	4.80	0.00	098.98	?UNDEF	?UNDEF	?UNDEF	27.20	0.00	101.63	101.57	25.10	0.00	?UNDEF	?UNDEF
23	2.60	0.00	106.05	?UNDEF	?UNDEF	?UNDEF	27.40	0.00	101.57	101.61	24.70	0.00	?UNDEF	?UNDEF
24	2.50	0.00	100.23	?UNDEF	?UNDEF	?UNDEF	21.00	0.00	101.63	101.84	24.50	0.00	?UNDEF	?UNDEF
	LOWER MONUMENTAL			ICE HARBOR			MCNARY			PASCO				
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	27.00	0.00	?UNDEF	?UNDEF	27.20	0.00	097.48	096.65	98.70	0.00	098.61	098.16	097.97	099.27
2	21.50	0.00	?UNDEF	?UNDEF	21.20	0.00	097.50	096.72	98.00	0.00	098.65	098.22	098.12	099.16
3	20.90	0.00	?UNDEF	?UNDEF	20.20	0.00	097.55	096.77	96.80	0.00	098.70	098.22	098.28	099.23
4	21.40	0.00	?UNDEF	?UNDEF	20.20	0.00	097.57	096.77	96.90	0.00	098.71	098.27	098.32	099.24
5	20.70	0.00	?UNDEF	?UNDEF	21.50	0.00	097.57	096.66	103.90	0.00	098.71	098.27	098.16	099.20
6	20.70	0.00	?UNDEF	?UNDEF	21.50	0.00	097.56	096.80	104.90	0.00	098.71	098.26	098.19	099.15
7	20.60	0.00	?UNDEF	?UNDEF	19.90	0.00	097.65	096.81	109.50	0.00	098.74	098.34	098.23	099.16
8	21.00	0.00	?UNDEF	?UNDEF	20.40	0.00	097.69	097.14	110.60	0.00	098.79	098.21	098.26	099.20
9	26.90	0.00	?UNDEF	?UNDEF	25.80	0.00	097.69	097.53	114.90	0.00	098.82	098.38	098.26	099.19
10	28.80	0.00	?UNDEF	?UNDEF	24.70	0.00	097.74	097.19	115.00	0.00	098.84	098.39	098.30	099.22
11	31.40	0.00	?UNDEF	?UNDEF	28.50	0.00	097.74	097.09	114.60	0.00	098.85	098.44	098.35	099.26
12	32.70	0.00	?UNDEF	?UNDEF	28.70	0.00	097.80	097.33	114.00	0.00	098.96	098.56	098.43	099.50
13	31.30	0.00	?UNDEF	?UNDEF	29.30	0.00	097.89	097.34	114.60	0.00	099.02	098.55	098.47	099.55
14	35.60	0.00	?UNDEF	?UNDEF	32.60	0.00	097.97	097.33	114.50	0.00	099.08	098.66	098.60	099.78
15	34.20	0.00	?UNDEF	?UNDEF	32.80	0.00	098.00	097.48	114.00	0.00	099.26	098.66	098.57	099.76
16	34.20	0.00	?UNDEF	?UNDEF	32.90	0.00	098.05	097.40	114.10	0.00	099.22	098.77	098.69	099.95
17	35.70	0.00	?UNDEF	?UNDEF	36.80	0.00	098.11	097.32	113.50	0.00	099.22	098.75	098.69	100.04
18	36.10	0.00	?UNDEF	?UNDEF	39.10	0.00	098.13	097.37	125.10	0.00	099.23	098.84	098.73	100.04
19	39.20	0.00	?UNDEF	?UNDEF	38.50	0.00	098.22	097.42	126.40	0.00	099.31	098.92	098.81	100.12
20	35.80	0.00	?UNDEF	?UNDEF	38.40	0.00	098.22	097.43	125.90	0.00	099.33	098.91	098.84	100.13
21	31.40	0.00	?UNDEF	?UNDEF	38.20	0.00	098.28	097.47	107.40	0.00	099.38	098.96	098.87	100.07
22	28.40	0.00	?UNDEF	?UNDEF	30.00	0.00	098.33	097.51	105.30	0.00	099.44	099.00	098.95	100.13
23	27.70	0.00	?UNDEF	?UNDEF	29.30	0.00	098.40	097.57	104.90	0.00	099.51	099.09	099.11	100.03
24	23.00	0.00	?UNDEF	?UNDEF	28.00	0.00	098.36	097.57	97.30	0.00	099.54	099.10	098.99	100.03

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	DWRSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	
1	2.60	0.00	096.85	?UNDEF	?UNDEF	?UNDEF	23.20	0.00	100.47	100.54	21.40	0.00	?UNDEF	?UNDEF	
2	2.50	0.00	096.71	?UNDEF	?UNDEF	?UNDEF	25.20	0.00	100.17	100.94	13.00	0.00	?UNDEF	?UNDEF	
3	2.50	0.00	096.94	?UNDEF	?UNDEF	?UNDEF	23.30	0.00	100.17	100.62	17.20	0.00	?UNDEF	?UNDEF	
4	2.50	0.00	096.66	?UNDEF	?UNDEF	?UNDEF	22.90	0.00	100.16	100.52	22.80	0.00	?UNDEF	?UNDEF	
5	2.70	0.00	096.80	?UNDEF	?UNDEF	?UNDEF	22.90	0.00	100.23	100.44	21.60	0.00	?UNDEF	?UNDEF	
6	4.90	0.00	099.85	?UNDEF	?UNDEF	?UNDEF	22.90	0.00	100.27	100.46	21.70	0.00	?UNDEF	?UNDEF	
7	7.20	0.00	099.72	?UNDEF	?UNDEF	?UNDEF	23.10	0.00	100.25	100.44	23.40	0.00	?UNDEF	?UNDEF	
8	8.30	0.00	095.54	?UNDEF	?UNDEF	?UNDEF	23.70	0.00	100.19	100.38	23.60	0.00	?UNDEF	?UNDEF	
9	8.40	0.00	095.50	?UNDEF	?UNDEF	?UNDEF	25.20	0.00	100.23	100.26	25.90	0.00	?UNDEF	?UNDEF	
10	8.30	0.00	095.58	?UNDEF	?UNDEF	?UNDEF	25.10	0.00	100.20	100.28	27.50	0.00	?UNDEF	?UNDEF	
11	8.50	0.00	095.60	?UNDEF	?UNDEF	?UNDEF	24.70	0.00	100.29	100.36	27.90	0.00	?UNDEF	?UNDEF	
12	8.30	0.00	095.70	?UNDEF	?UNDEF	?UNDEF	24.20	0.00	100.40	100.46	27.90	0.00	?UNDEF	?UNDEF	
13	8.30	0.00	095.80	?UNDEF	?UNDEF	?UNDEF	24.30	0.00	100.45	100.53	27.90	0.00	?UNDEF	?UNDEF	
14	8.40	0.00	095.68	?UNDEF	?UNDEF	?UNDEF	24.30	0.00	100.52	100.54	27.80	0.00	?UNDEF	?UNDEF	
15	8.40	0.00	095.61	?UNDEF	?UNDEF	?UNDEF	24.30	0.00	100.52	100.56	27.80	0.00	?UNDEF	?UNDEF	
16	8.50	0.00	095.60	?UNDEF	?UNDEF	?UNDEF	29.10	0.00	100.52	100.53	27.80	0.00	?UNDEF	?UNDEF	
17	8.40	0.00	095.58	?UNDEF	?UNDEF	?UNDEF	29.50	0.00	100.35	100.41	29.70	0.00	?UNDEF	?UNDEF	
18	8.40	0.00	095.56	?UNDEF	?UNDEF	?UNDEF	31.40	0.00	100.37	100.42	31.00	0.00	?UNDEF	?UNDEF	
19	8.30	0.00	095.58	?UNDEF	?UNDEF	?UNDEF	31.60	0.00	100.45	100.54	31.80	0.00	?UNDEF	?UNDEF	
20	8.30	0.00	095.63	?UNDEF	?UNDEF	?UNDEF	31.50	0.00	100.43	100.46	31.80	0.00	?UNDEF	?UNDEF	
21	7.20	0.00	095.62	?UNDEF	?UNDEF	?UNDEF	29.50	0.00	100.45	100.49	31.60	0.00	?UNDEF	?UNDEF	
22	4.70	0.00	097.10	?UNDEF	?UNDEF	?UNDEF	29.30	0.00	100.41	100.48	31.60	0.00	?UNDEF	?UNDEF	
23	2.60	0.00	105.32	?UNDEF	?UNDEF	?UNDEF	28.40	0.00	100.32	100.49	29.00	0.00	?UNDEF	?UNDEF	
24	2.50	0.00	099.29	?UNDEF	?UNDEF	?UNDEF	22.00	0.00	100.36	101.46	25.70	0.00	?UNDEF	?UNDEF	
	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT	
1	27.70	0.00	?UNDEF	?UNDEF	24.90	0.00	097.15	096.50	86.70	0.00	098.53	098.09	097.88	098.93	
2	16.90	0.00	?UNDEF	?UNDEF	25.00	0.00	097.14	096.49	73.20	0.00	098.52	098.06	097.87	098.94	
3	15.80	0.00	?UNDEF	?UNDEF	25.00	0.00	097.14	096.42	73.60	0.00	098.35	098.18	097.83	098.89	
4	16.60	0.00	?UNDEF	?UNDEF	25.60	0.00	097.06	096.41	88.30	0.00	098.32	098.02	097.92	098.95	
5	20.40	0.00	?UNDEF	?UNDEF	25.00	0.00	096.96	096.41	101.30	0.00	098.29	098.00	097.93	098.85	
6	21.30	0.00	?UNDEF	?UNDEF	25.00	0.00	096.94	096.44	133.40	0.00	098.43	097.98	097.91	098.98	
7	21.80	0.00	?UNDEF	?UNDEF	25.00	0.00	096.88	096.36	137.20	0.00	098.29	097.97	097.88	098.94	
8	25.10	0.00	?UNDEF	?UNDEF	25.30	0.00	096.84	096.27	140.60	0.00	098.21	097.91	097.81	098.73	
9	27.40	0.00	?UNDEF	?UNDEF	27.70	0.00	096.90	096.22	141.40	0.00	098.17	097.86	097.78	098.81	
10	26.90	0.00	?UNDEF	?UNDEF	27.30	0.00	096.97	096.29	137.20	0.00	098.26	097.84	097.74	098.84	
11	28.20	0.00	?UNDEF	?UNDEF	27.30	0.00	096.98	096.43	135.30	0.00	098.34	097.91	097.82	098.86	
12	29.30	0.00	?UNDEF	?UNDEF	27.20	0.00	097.01	096.50	130.90	0.00	098.42	097.97	097.88	099.07	
13	30.40	0.00	?UNDEF	?UNDEF	26.90	0.00	097.14	096.58	125.10	0.00	098.51	098.03	097.99	099.16	
14	28.80	0.00	?UNDEF	?UNDEF	27.10	0.00	097.19	096.67	123.40	0.00	098.69	098.15	098.05	099.35	
15	28.60	0.00	?UNDEF	?UNDEF	28.90	0.00	097.15	096.65	122.50	0.00	098.57	097.99	098.04	099.33	
16	28.80	0.00	?UNDEF	?UNDEF	27.40	0.00	097.15	096.72	121.80	0.00	098.51	097.93	098.01	099.40	
17	30.00	0.00	?UNDEF	?UNDEF	30.90	0.00	097.12	096.71	121.10	0.00	098.51	098.06	097.87	099.44	
18	31.30	0.00	?UNDEF	?UNDEF	30.10	0.00	097.16	097.28	118.40	0.00	098.38	097.93	097.86	099.46	
19	32.40	0.00	?UNDEF	?UNDEF	29.90	0.00	097.19	096.78	118.30	0.00	098.47	098.01	097.93	099.33	
20	33.30	0.00	?UNDEF	?UNDEF	31.40	0.00	097.19	096.92	108.30	0.00	098.45	097.98	097.89	099.35	
21	32.80	0.00	?UNDEF	?UNDEF	30.30	0.00	097.19	096.67	108.50	0.00	098.41	097.98	097.91	099.20	
22	32.80	0.00	?UNDEF	?UNDEF	29.50	0.00	097.34	096.51	108.00	0.00	098.47	097.98	097.96	099.21	
23	31.30	0.00	?UNDEF	?UNDEF	29.50	0.00	097.34	097.17	98.80	0.00	098.36	098.04	097.93	099.14	
24	27.60	0.00	?UNDEF	?UNDEF	27.40	0.00	097.43	096.78	97.80	0.00	098.44	098.13	097.90	099.14	

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HOUR	DWRSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	2.50	0.00	097.29	?UNDEF	?UNDEF	?UNDEF	16.20	0.00	100.66	101.96	14.20	0.00	?UNDEF	?UNDEF
2	2.50	0.00	097.14	?UNDEF	?UNDEF	?UNDEF	13.70	0.00	100.56	101.31	16.30	0.00	?UNDEF	?UNDEF
3	2.50	0.00	097.13	?UNDEF	?UNDEF	?UNDEF	13.80	0.00	100.63	101.00	7.50	0.00	?UNDEF	?UNDEF
4	2.60	0.00	097.16	?UNDEF	?UNDEF	?UNDEF	13.50	0.00	100.63	100.92	0.00	0.00	?UNDEF	?UNDEF
5	2.60	0.00	097.13	?UNDEF	?UNDEF	?UNDEF	13.50	0.00	100.51	100.95	0.00	0.00	?UNDEF	?UNDEF
6	4.60	0.00	099.53	?UNDEF	?UNDEF	?UNDEF	18.00	0.00	100.47	100.75	1.30	0.00	?UNDEF	?UNDEF
7	7.10	0.00	100.58	?UNDEF	?UNDEF	?UNDEF	22.10	0.00	100.45	100.79	19.00	0.00	?UNDEF	?UNDEF
8	7.90	0.00	095.96	?UNDEF	?UNDEF	?UNDEF	22.00	0.00	100.45	100.75	21.10	0.00	?UNDEF	?UNDEF
9	8.50	0.00	095.80	?UNDEF	?UNDEF	?UNDEF	22.00	0.00	100.37	100.72	21.70	0.00	?UNDEF	?UNDEF
10	8.40	0.00	095.92	?UNDEF	?UNDEF	?UNDEF	18.50	0.00	100.48	100.83	21.60	0.00	?UNDEF	?UNDEF
11	8.40	0.00	096.07	?UNDEF	?UNDEF	?UNDEF	18.50	0.00	100.44	100.80	21.60	0.00	?UNDEF	?UNDEF
12	8.40	0.00	095.95	?UNDEF	?UNDEF	?UNDEF	16.90	0.00	100.60	100.80	18.50	0.00	?UNDEF	?UNDEF
13	8.40	0.00	096.00	?UNDEF	?UNDEF	?UNDEF	15.40	0.00	100.73	100.81	16.10	0.00	?UNDEF	?UNDEF
14	8.50	0.00	096.01	?UNDEF	?UNDEF	?UNDEF	15.30	0.00	100.73	100.96	16.10	0.00	?UNDEF	?UNDEF
15	8.40	0.00	096.00	?UNDEF	?UNDEF	?UNDEF	15.50	0.00	100.60	100.77	16.20	0.00	?UNDEF	?UNDEF
16	8.40	0.00	095.83	?UNDEF	?UNDEF	?UNDEF	21.70	0.00	100.57	100.76	21.30	0.00	?UNDEF	?UNDEF
17	8.40	0.00	095.79	?UNDEF	?UNDEF	?UNDEF	22.50	0.00	100.55	100.72	22.10	0.00	?UNDEF	?UNDEF
18	8.40	0.00	095.78	?UNDEF	?UNDEF	?UNDEF	22.00	0.00	100.52	100.69	21.80	0.00	?UNDEF	?UNDEF
19	8.50	0.00	095.79	?UNDEF	?UNDEF	?UNDEF	22.00	0.00	100.45	100.62	21.90	0.00	?UNDEF	?UNDEF
20	8.30	0.00	095.60	?UNDEF	?UNDEF	?UNDEF	27.00	0.00	100.73	100.92	27.50	0.00	?UNDEF	?UNDEF
21	7.10	0.00	095.67	?UNDEF	?UNDEF	?UNDEF	29.60	0.00	100.53	101.09	34.60	0.00	?UNDEF	?UNDEF
22	4.50	0.00	095.90	?UNDEF	?UNDEF	?UNDEF	28.40	0.00	100.43	100.61	34.80	0.00	?UNDEF	?UNDEF
23	2.70	0.00	098.54	?UNDEF	?UNDEF	?UNDEF	23.50	0.00	100.45	100.52	30.20	0.00	?UNDEF	?UNDEF
24	2.50	0.00	097.97	?UNDEF	?UNDEF	?UNDEF	22.90	0.00	100.51	100.52	27.40	0.00	?UNDEF	?UNDEF
HOUR	LOWER MONUMENTAL			ICE HARBOR			MCNARY			PASCO				
	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB %SAT. TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB %SAT. TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT		
1	13.90	0.00	?UNDEF ?UNDEF	20.10	0.00	097.70 096.79	71.80	0.00	099.04	098.74	098.64	099.01		
2	14.90	0.00	?UNDEF ?UNDEF	17.80	0.00	097.71 096.75	71.40	0.00	098.96	098.69	098.46	099.01		
3	.90	0.00	?UNDEF ?UNDEF	12.40	0.00	097.70 096.79	112.70	0.00	098.93	098.68	098.44	098.82		
4	.30	0.00	?UNDEF ?UNDEF	12.10	0.00	097.57 096.77	130.80	0.00	098.96	098.68	098.27	098.82		
5	.30	0.00	?UNDEF ?UNDEF	9.20	0.00	097.52 096.75	142.70	0.00	098.88	098.51	098.27	098.66		
6	.30	0.00	?UNDEF ?UNDEF	9.00	0.00	097.67 096.87	153.60	0.00	098.92	098.49	098.42	098.63		
7	18.90	0.00	?UNDEF ?UNDEF	10.70	0.00	097.65 096.81	170.50	0.00	098.85	098.43	098.32	098.61		
8	20.60	0.00	?UNDEF ?UNDEF	12.40	0.00	097.60 096.90	150.10	0.00	098.79	098.38	098.26	098.46		
9	21.00	0.00	?UNDEF ?UNDEF	18.80	0.00	097.53 096.85	135.80	0.00	098.76	098.33	098.24	098.52		
10	21.20	0.00	?UNDEF ?UNDEF	19.00	0.00	097.62 096.84	126.50	0.00	098.72	098.26	098.20	098.49		
11	22.60	0.00	?UNDEF ?UNDEF	20.50	0.00	097.59 097.21	124.80	0.00	098.86	098.26	098.31	098.56		
12	19.20	0.00	?UNDEF ?UNDEF	19.70	0.00	097.57 097.05	116.20	0.00	098.83	098.39	098.31	098.67		
13	14.30	0.00	?UNDEF ?UNDEF	9.90	0.00	097.59 096.94	115.20	0.00	098.97	098.42	098.33	098.84		
14	13.80	0.00	?UNDEF ?UNDEF	8.90	0.00	097.62 097.08	115.80	0.00	099.00	098.44	098.38	098.99		
15	13.60	0.00	?UNDEF ?UNDEF	8.90	0.00	097.57 097.71	123.60	0.00	099.11	098.39	098.33	099.11		
16	13.80	0.00	?UNDEF ?UNDEF	8.90	0.00	097.39 097.66	125.90	0.00	099.05	098.34	098.45	099.19		
17	20.60	0.00	?UNDEF ?UNDEF	9.60	0.00	097.39 097.66	136.90	0.00	098.91	098.32	098.23	099.23		
18	22.70	0.00	?UNDEF ?UNDEF	17.80	0.00	097.34 097.58	139.30	0.00	098.86	098.29	098.23	099.16		
19	21.40	0.00	?UNDEF ?UNDEF	17.90	0.00	097.34 096.95	138.00	0.00	098.83	098.29	098.35	099.15		
20	29.40	0.00	?UNDEF ?UNDEF	24.10	0.00	097.37 096.82	125.40	0.00	098.83	098.38	098.15	099.12		
21	34.70	0.00	?UNDEF ?UNDEF	26.00	0.00	097.29 096.75	124.50	0.00	098.64	098.19	098.11	099.07		
22	35.00	0.00	?UNDEF ?UNDEF	24.30	0.00	097.21 096.56	122.40	0.00	098.60	098.15	098.05	098.87		
23	34.90	0.00	?UNDEF ?UNDEF	24.50	0.00	097.29 096.77	98.10	0.00	098.56	098.10	097.89	098.81		
24	29.40	0.00	?UNDEF ?UNDEF	24.80	0.00	097.16 096.86	93.40	0.00	098.55	098.07	097.88	098.81		

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HOUR	DWORKSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	2.40	0.00	105.89	?UNDEF	?UNDEF	?UNDEF	13.10	0.00	101.09	101.19	13.70	0.00	?UNDEF	?UNDEF
2	2.50	0.00	099.62	?UNDEF	?UNDEF	?UNDEF	13.20	0.00	101.10	101.16	13.40	0.00	?UNDEF	?UNDEF
3	2.50	0.00	097.18	?UNDEF	?UNDEF	?UNDEF	13.10	0.00	101.26	101.18	13.10	0.00	?UNDEF	?UNDEF
4	2.50	0.00	096.73	?UNDEF	?UNDEF	?UNDEF	12.80	0.00	101.21	101.15	13.00	0.00	?UNDEF	?UNDEF
5	2.60	0.00	096.46	?UNDEF	?UNDEF	?UNDEF	13.00	0.00	101.21	101.20	13.10	0.00	?UNDEF	?UNDEF
6	4.70	0.00	102.11	?UNDEF	?UNDEF	?UNDEF	22.40	0.00	101.24	101.33	13.40	0.00	?UNDEF	?UNDEF
7	7.20	0.00	102.22	?UNDEF	?UNDEF	?UNDEF	25.00	0.00	101.18	101.23	23.90	0.00	?UNDEF	?UNDEF
8	8.50	0.00	096.60	?UNDEF	?UNDEF	?UNDEF	24.60	0.00	101.14	101.19	24.20	0.00	?UNDEF	?UNDEF
9	8.40	0.00	096.13	?UNDEF	?UNDEF	?UNDEF	24.40	0.00	101.10	101.11	24.70	0.00	?UNDEF	?UNDEF
10	8.40	0.00	096.07	?UNDEF	?UNDEF	?UNDEF	24.80	0.00	101.06	101.27	24.30	0.00	?UNDEF	?UNDEF
11	8.40	0.00	096.07	?UNDEF	?UNDEF	?UNDEF	24.20	0.00	100.90	101.22	20.40	0.00	?UNDEF	?UNDEF
12	8.40	0.00	096.11	?UNDEF	?UNDEF	?UNDEF	26.00	0.00	101.07	101.54	19.10	0.00	?UNDEF	?UNDEF
13	8.50	0.00	096.10	?UNDEF	?UNDEF	?UNDEF	24.50	0.00	101.21	101.55	18.80	0.00	?UNDEF	?UNDEF
14	8.40	0.00	096.11	?UNDEF	?UNDEF	?UNDEF	24.00	0.00	101.22	101.39	18.80	0.00	?UNDEF	?UNDEF
15	8.40	0.00	096.09	?UNDEF	?UNDEF	?UNDEF	24.40	0.00	101.18	101.34	21.50	0.00	?UNDEF	?UNDEF
16	8.40	0.00	096.06	?UNDEF	?UNDEF	?UNDEF	23.90	0.00	101.15	101.23	22.00	0.00	?UNDEF	?UNDEF
17	8.40	0.00	095.94	?UNDEF	?UNDEF	?UNDEF	23.90	0.00	100.96	101.16	29.40	0.00	?UNDEF	?UNDEF
18	8.50	0.00	096.01	?UNDEF	?UNDEF	?UNDEF	24.10	0.00	100.86	101.20	27.90	0.00	?UNDEF	?UNDEF
19	8.40	0.00	095.94	?UNDEF	?UNDEF	?UNDEF	25.20	0.00	101.00	101.24	30.70	0.00	?UNDEF	?UNDEF
20	8.40	0.00	095.91	?UNDEF	?UNDEF	?UNDEF	23.90	0.00	100.92	101.90	27.70	0.00	?UNDEF	?UNDEF
21	7.10	0.00	095.90	?UNDEF	?UNDEF	?UNDEF	22.60	0.00	100.76	101.40	27.80	0.00	?UNDEF	?UNDEF
22	4.80	0.00	095.62	?UNDEF	?UNDEF	?UNDEF	23.50	0.00	100.87	101.86	27.70	0.00	?UNDEF	?UNDEF
23	2.60	0.00	098.52	?UNDEF	?UNDEF	?UNDEF	15.20	0.00	100.71	101.34	27.80	0.00	?UNDEF	?UNDEF
24	2.50	0.00	097.83	?UNDEF	?UNDEF	?UNDEF	21.30	0.00	100.70	101.17	28.90	0.00	?UNDEF	?UNDEF
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO	
	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	15.60	0.00	?UNDEF	?UNDEF	26.40	0.00	097.97	097.20	87.10	0.00	099.31	098.84	098.66	099.78
2	13.30	0.00	?UNDEF	?UNDEF	19.70	0.00	097.97	097.20	86.60	0.00	099.18	098.83	098.64	099.67
3	13.20	0.00	?UNDEF	?UNDEF	12.70	0.00	097.97	097.07	86.30	0.00	099.15	098.84	098.74	099.64
4	13.40	0.00	?UNDEF	?UNDEF	12.60	0.00	097.98	097.18	105.80	0.00	099.17	098.87	098.78	099.64
5	13.40	0.00	?UNDEF	?UNDEF	12.80	0.00	097.95	097.20	124.00	0.00	099.22	098.80	098.61	099.66
6	15.60	0.00	?UNDEF	?UNDEF	13.90	0.00	097.94	097.01	130.80	0.00	099.23	098.82	098.61	099.50
7	23.20	0.00	?UNDEF	?UNDEF	22.40	0.00	097.90	097.10	142.30	0.00	099.23	098.79	098.60	099.47
8	23.20	0.00	?UNDEF	?UNDEF	22.80	0.00	097.88	097.20	141.80	0.00	099.15	098.75	098.52	099.39
9	22.70	0.00	?UNDEF	?UNDEF	22.70	0.00	097.84	097.41	135.00	0.00	099.06	098.70	098.68	099.33
10	22.60	0.00	?UNDEF	?UNDEF	22.40	0.00	097.94	097.43	163.80	0.00	099.17	098.71	098.76	099.30
11	19.50	0.00	?UNDEF	?UNDEF	22.20	0.00	097.92	097.42	165.80	0.00	099.31	098.73	098.82	099.46
12	19.30	0.00	?UNDEF	?UNDEF	22.20	0.00	097.90	097.39	165.10	0.00	099.35	098.77	098.95	099.59
13	19.40	0.00	?UNDEF	?UNDEF	23.80	0.00	097.89	097.49	168.20	0.00	099.48	098.80	098.99	099.67
14	19.70	0.00	?UNDEF	?UNDEF	22.40	0.00	097.90	097.54	167.40	0.00	099.47	098.82	098.99	099.83
15	21.40	0.00	?UNDEF	?UNDEF	22.10	0.00	097.90	097.49	157.80	0.00	099.64	098.80	099.00	099.78
16	21.30	0.00	?UNDEF	?UNDEF	22.30	0.00	097.87	097.48	151.10	0.00	099.47	098.83	098.99	099.91
17	28.40	0.00	?UNDEF	?UNDEF	28.50	0.00	097.89	097.19	147.70	0.00	099.50	098.84	098.86	099.84
18	27.30	0.00	?UNDEF	?UNDEF	27.30	0.00	097.88	097.20	131.30	0.00	099.38	098.84	098.86	099.80
19	27.10	0.00	?UNDEF	?UNDEF	26.00	0.00	097.88	097.19	126.30	0.00	099.45	098.82	098.66	099.64
20	27.10	0.00	?UNDEF	?UNDEF	26.40	0.00	097.89	097.20	109.90	0.00	099.43	098.62	098.65	099.51
21	26.90	0.00	?UNDEF	?UNDEF	25.90	0.00	097.85	097.01	106.90	0.00	099.25	098.69	098.59	099.34
22	28.60	0.00	?UNDEF	?UNDEF	26.00	0.00	097.81	096.85	101.70	0.00	099.21	098.89	098.56	099.35
23	27.10	0.00	?UNDEF	?UNDEF	25.80	0.00	097.74	096.84	78.90	0.00	099.06	098.89	098.64	099.16
24	27.10	0.00	?UNDEF	?UNDEF	25.40	0.00	097.74	096.82	73.50	0.00	099.02	098.73	098.67	099.16

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HOUR	DWRSHAK			STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.
1	2.50	0.00	098.03	?UNDEF	?UNDEF	?UNDEF	11.50	0.00	100.55	100.62	14.40	0.00	?UNDEF	?UNDEF
2	2.50	0.00	096.92	?UNDEF	?UNDEF	?UNDEF	11.60	0.00	100.56	100.62	13.80	0.00	?UNDEF	?UNDEF
3	2.50	0.00	096.57	?UNDEF	?UNDEF	?UNDEF	11.50	0.00	100.55	100.63	12.00	0.00	?UNDEF	?UNDEF
4	2.50	0.00	096.33	?UNDEF	?UNDEF	?UNDEF	11.40	0.00	100.62	100.67	11.90	0.00	?UNDEF	?UNDEF
5	2.60	0.00	096.51	?UNDEF	?UNDEF	?UNDEF	11.40	0.00	100.71	100.79	11.90	0.00	?UNDEF	?UNDEF
6	4.70	0.00	102.23	?UNDEF	?UNDEF	?UNDEF	11.80	0.00	100.73	100.76	12.10	0.00	?UNDEF	?UNDEF
7	7.20	0.00	101.85	?UNDEF	?UNDEF	?UNDEF	20.80	0.00	100.70	100.74	12.30	0.00	?UNDEF	?UNDEF
8	8.40	0.00	096.73	?UNDEF	?UNDEF	?UNDEF	25.00	0.00	100.82	100.74	21.00	0.00	?UNDEF	?UNDEF
9	7.30	0.00	096.17	?UNDEF	?UNDEF	?UNDEF	26.90	0.00	100.75	100.87	25.70	0.00	?UNDEF	?UNDEF
10	8.30	0.00	097.01	?UNDEF	?UNDEF	?UNDEF	27.20	0.00	100.91	100.84	26.40	0.00	?UNDEF	?UNDEF
11	8.40	0.00	096.55	?UNDEF	?UNDEF	?UNDEF	27.30	0.00	101.08	100.98	30.50	0.00	?UNDEF	?UNDEF
12	8.40	0.00	096.46	?UNDEF	?UNDEF	?UNDEF	27.20	0.00	101.05	101.10	27.80	0.00	?UNDEF	?UNDEF
13	8.40	0.00	096.52	?UNDEF	?UNDEF	?UNDEF	27.20	0.00	101.02	100.96	27.80	0.00	?UNDEF	?UNDEF
14	8.50	0.00	096.54	?UNDEF	?UNDEF	?UNDEF	27.00	0.00	100.90	100.99	27.90	0.00	?UNDEF	?UNDEF
15	8.40	0.00	096.39	?UNDEF	?UNDEF	?UNDEF	20.50	0.00	100.87	101.10	19.50	0.00	?UNDEF	?UNDEF
16	8.40	0.00	096.38	?UNDEF	?UNDEF	?UNDEF	18.20	0.00	100.86	101.74	18.30	0.00	?UNDEF	?UNDEF
17	8.40	0.00	096.42	?UNDEF	?UNDEF	?UNDEF	18.60	0.00	100.91	101.13	16.80	0.00	?UNDEF	?UNDEF
18	8.50	0.00	096.43	?UNDEF	?UNDEF	?UNDEF	18.40	0.00	100.91	101.08	20.00	0.00	?UNDEF	?UNDEF
19	8.30	0.00	096.42	?UNDEF	?UNDEF	?UNDEF	22.20	0.00	100.99	101.06	25.40	0.00	?UNDEF	?UNDEF
20	8.40	0.00	096.28	?UNDEF	?UNDEF	?UNDEF	27.00	0.00	101.03	101.06	30.60	0.00	?UNDEF	?UNDEF
21	8.40	0.00	096.37	?UNDEF	?UNDEF	?UNDEF	27.10	0.00	101.10	101.19	32.80	0.00	?UNDEF	?UNDEF
22	8.10	0.00	096.22	?UNDEF	?UNDEF	?UNDEF	32.10	0.00	101.09	101.14	36.50	0.00	?UNDEF	?UNDEF
23	5.40	0.00	097.93	?UNDEF	?UNDEF	?UNDEF	23.30	0.00	101.10	101.19	36.20	0.00	?UNDEF	?UNDEF
24	3.20	0.00	097.24	?UNDEF	?UNDEF	?UNDEF	12.20	0.00	101.10	101.30	24.80	0.00	?UNDEF	?UNDEF

HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO	
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT
1	20.60	0.00	?UNDEF	?UNDEF	29.90	0.00	097.85	096.91	68.70	0.00	099.17	098.75	098.51	099.26
2	13.10	0.00	?UNDEF	?UNDEF	19.60	0.00	097.89	096.95	68.90	0.00	099.22	098.79	098.57	099.26
3	11.50	0.00	?UNDEF	?UNDEF	20.50	0.00	097.90	096.98	69.10	0.00	099.13	098.86	098.64	099.29
4	12.90	0.00	?UNDEF	?UNDEF	19.10	0.00	097.89	097.13	69.10	0.00	099.01	098.84	098.74	099.17
5	11.40	0.00	?UNDEF	?UNDEF	19.00	0.00	097.89	097.20	69.10	0.00	099.10	098.83	098.85	099.18
6	13.00	0.00	?UNDEF	?UNDEF	18.90	0.00	097.78	097.25	116.60	0.00	099.21	098.86	098.81	099.19
7	11.70	0.00	?UNDEF	?UNDEF	19.10	0.00	097.90	097.36	148.40	0.00	099.30	098.84	098.77	099.09
8	22.30	0.00	?UNDEF	?UNDEF	20.90	0.00	097.80	097.15	145.70	0.00	099.10	098.82	098.85	099.10
9	28.40	0.00	?UNDEF	?UNDEF	29.50	0.00	097.92	097.13	127.60	0.00	099.11	098.80	098.86	099.05
10	28.40	0.00	?UNDEF	?UNDEF	31.00	0.00	097.85	097.24	105.00	0.00	099.02	098.74	098.78	099.12
11	30.70	0.00	?UNDEF	?UNDEF	32.50	0.00	097.84	097.33	105.40	0.00	099.17	098.74	098.78	099.13
12	31.10	0.00	?UNDEF	?UNDEF	32.20	0.00	097.90	097.41	117.60	0.00	099.26	098.82	098.86	099.30
13	30.50	0.00	?UNDEF	?UNDEF	31.60	0.00	097.97	097.98	115.70	0.00	099.43	098.86	098.91	099.54
14	30.20	0.00	?UNDEF	?UNDEF	31.40	0.00	097.99	098.17	108.40	0.00	099.59	098.87	098.92	099.71
15	23.00	0.00	?UNDEF	?UNDEF	22.90	0.00	097.97	097.58	96.80	0.00	099.52	098.82	098.86	099.91
16	20.70	0.00	?UNDEF	?UNDEF	20.30	0.00	097.94	097.29	96.00	0.00	099.55	098.80	098.86	099.91
17	15.20	0.00	?UNDEF	?UNDEF	14.20	0.00	097.95	097.18	96.20	0.00	099.55	098.86	099.06	100.03
18	15.60	0.00	?UNDEF	?UNDEF	14.10	0.00	097.94	097.15	121.50	0.00	099.44	098.84	098.91	100.05
19	30.70	0.00	?UNDEF	?UNDEF	26.70	0.00	097.93	097.15	134.40	0.00	099.41	098.83	098.87	100.01
20	31.20	0.00	?UNDEF	?UNDEF	27.60	0.00	097.94	097.16	135.80	0.00	099.29	098.84	098.91	100.04
21	38.30	0.00	?UNDEF	?UNDEF	35.20	0.00	097.97	097.28	124.40	0.00	099.26	098.82	098.75	100.04
22	42.20	0.00	?UNDEF	?UNDEF	35.30	0.00	097.93	097.25	121.80	0.00	099.27	098.86	098.75	099.89
23	42.70	0.00	?UNDEF	?UNDEF	35.70	0.00	097.94	097.13	99.60	0.00	099.30	098.86	098.79	099.89
24	30.70	0.00	?UNDEF	?UNDEF	36.70	0.00	097.94	097.11	86.30	0.00	099.30	098.86	098.67	099.89

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HOUR	DWRSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	6.00	0.00	095.04	?UNDEF	?UNDEF	?UNDEF	15.00	0.00	099.88	099.69	.10	0.00	?UNDEF	?UNDEF
2	5.90	0.00	095.09	?UNDEF	?UNDEF	?UNDEF	15.00	0.00	099.97	099.75	3.10	0.00	?UNDEF	?UNDEF
3	6.10	0.00	095.17	?UNDEF	?UNDEF	?UNDEF	15.40	0.00	100.03	099.83	.10	0.00	?UNDEF	?UNDEF
4	6.00	0.00	095.19	?UNDEF	?UNDEF	?UNDEF	18.00	0.00	100.16	099.92	.10	0.00	?UNDEF	?UNDEF
5	6.00	0.00	095.26	?UNDEF	?UNDEF	?UNDEF	21.10	0.00	100.17	100.16	13.30	0.00	?UNDEF	?UNDEF
6	5.90	0.00	095.28	?UNDEF	?UNDEF	?UNDEF	28.70	0.00	100.23	100.17	21.20	0.00	?UNDEF	?UNDEF
7	6.00	0.00	095.31	?UNDEF	?UNDEF	?UNDEF	34.60	0.00	100.05	100.08	38.50	0.00	?UNDEF	?UNDEF
8	6.10	0.00	095.26	?UNDEF	?UNDEF	?UNDEF	34.30	0.00	099.97	100.03	39.40	0.00	?UNDEF	?UNDEF
9	6.00	0.00	095.33	?UNDEF	?UNDEF	?UNDEF	34.70	0.00	100.08	100.03	34.10	0.00	?UNDEF	?UNDEF
10	6.00	0.00	095.45	?UNDEF	?UNDEF	?UNDEF	28.60	0.00	100.07	100.12	28.00	0.00	?UNDEF	?UNDEF
11	5.90	0.00	095.54	?UNDEF	?UNDEF	?UNDEF	27.60	0.00	100.19	100.32	27.70	0.00	?UNDEF	?UNDEF
12	5.90	0.00	095.81	?UNDEF	?UNDEF	?UNDEF	27.30	0.00	100.20	100.44	27.70	0.00	?UNDEF	?UNDEF
13	6.10	0.00	095.64	?UNDEF	?UNDEF	?UNDEF	27.30	0.00	100.19	100.64	27.50	0.00	?UNDEF	?UNDEF
14	5.90	0.00	095.89	?UNDEF	?UNDEF	?UNDEF	27.60	0.00	100.33	100.57	28.00	0.00	?UNDEF	?UNDEF
15	5.90	0.00	095.78	?UNDEF	?UNDEF	?UNDEF	27.60	0.00	100.36	100.44	27.80	0.00	?UNDEF	?UNDEF
16	5.90	0.00	095.80	?UNDEF	?UNDEF	?UNDEF	28.30	0.00	100.47	100.49	27.80	0.00	?UNDEF	?UNDEF
17	6.00	0.00	095.72	?UNDEF	?UNDEF	?UNDEF	33.40	0.00	100.48	100.41	33.00	0.00	?UNDEF	?UNDEF
18	6.10	0.00	095.69	?UNDEF	?UNDEF	?UNDEF	35.20	0.00	100.46	100.39	33.40	0.00	?UNDEF	?UNDEF
19	6.00	0.00	095.72	?UNDEF	?UNDEF	?UNDEF	35.10	0.00	100.59	100.36	33.00	0.00	?UNDEF	?UNDEF
20	6.00	0.00	095.71	?UNDEF	?UNDEF	?UNDEF	35.10	0.00	100.59	100.56	33.50	0.00	?UNDEF	?UNDEF
21	5.90	0.00	095.72	?UNDEF	?UNDEF	?UNDEF	27.10	0.00	100.56	100.49	32.70	0.00	?UNDEF	?UNDEF
22	5.90	0.00	095.71	?UNDEF	?UNDEF	?UNDEF	21.00	0.00	100.58	100.65	30.80	0.00	?UNDEF	?UNDEF
23	4.90	0.00	095.55	?UNDEF	?UNDEF	?UNDEF	11.90	0.00	100.47	100.53	27.70	0.00	?UNDEF	?UNDEF
24	2.50	0.00	097.58	?UNDEF	?UNDEF	?UNDEF	11.60	0.00	100.50	100.53	24.30	0.00	?UNDEF	?UNDEF
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO	
	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	3.40	0.00	?UNDEF	?UNDEF	25.90	0.00	097.00	096.18	117.00	0.00	098.36	097.95	097.72	: 099.04
2	.20	0.00	?UNDEF	?UNDEF	9.50	0.00	096.88	096.08	126.30	0.00	098.39	097.94	097.76	: 099.04
3	.10	0.00	?UNDEF	?UNDEF	9.00	0.00	096.96	096.30	129.60	0.00	098.49	098.03	097.97	: 099.10
4	.10	0.00	?UNDEF	?UNDEF	9.10	0.00	097.02	096.35	132.20	0.00	098.45	098.05	097.99	: 099.03
5	9.70	0.00	?UNDEF	?UNDEF	9.10	0.00	097.06	096.36	147.10	0.00	098.50	098.07	097.84	: 099.04
6	16.00	0.00	?UNDEF	?UNDEF	9.70	0.00	097.04	096.35	153.50	0.00	098.66	098.11	097.88	: 098.92
7	34.00	0.00	?UNDEF	?UNDEF	23.00	0.00	097.17	096.35	159.90	0.00	098.66	097.96	097.93	: 098.94
8	38.10	0.00	?UNDEF	?UNDEF	38.20	0.00	097.18	096.54	156.90	0.00	098.58	098.00	097.89	: 099.00
9	32.70	0.00	?UNDEF	?UNDEF	34.70	0.00	097.18	096.63	155.00	0.00	098.52	097.95	097.91	: 098.99
10	34.10	0.00	?UNDEF	?UNDEF	22.70	0.00	097.17	096.53	128.00	0.00	098.55	097.96	098.03	: 098.96
11	34.30	0.00	?UNDEF	?UNDEF	22.00	0.00	097.21	096.58	125.00	0.00	098.75	098.18	098.08	: 099.00
12	34.30	0.00	?UNDEF	?UNDEF	21.90	0.00	097.28	096.91	124.60	0.00	098.80	098.22	098.28	: 099.17
13	34.10	0.00	?UNDEF	?UNDEF	22.20	0.00	097.38	097.41	125.10	0.00	099.00	098.29	098.41	: 099.45
14	28.20	0.00	?UNDEF	?UNDEF	21.90	0.00	097.59	097.04	115.60	0.00	099.09	098.35	098.42	: 099.47
15	26.10	0.00	?UNDEF	?UNDEF	21.80	0.00	097.59	096.93	115.60	0.00	099.10	098.40	098.30	: 099.63
16	26.00	0.00	?UNDEF	?UNDEF	21.80	0.00	097.64	096.95	143.30	0.00	099.09	098.44	098.35	: 099.68
17	26.00	0.00	?UNDEF	?UNDEF	21.80	0.00	097.68	096.85	146.20	0.00	099.02	098.44	098.39	: 099.74
18	26.20	0.00	?UNDEF	?UNDEF	21.80	0.00	097.72	096.74	161.10	0.00	099.02	098.47	098.50	: 099.76
19	26.30	0.00	?UNDEF	?UNDEF	22.10	0.00	097.75	096.80	164.00	0.00	099.08	098.62	098.59	: 099.63
20	26.40	0.00	?UNDEF	?UNDEF	21.90	0.00	097.77	096.82	162.70	0.00	099.09	098.67	098.60	: 099.56
21	33.70	0.00	?UNDEF	?UNDEF	28.30	0.00	097.80	096.96	131.10	0.00	099.14	098.70	098.60	: 099.45
22	34.60	0.00	?UNDEF	?UNDEF	29.70	0.00	097.81	096.81	105.70	0.00	099.10	098.67	098.61	: 099.47
23	33.50	0.00	?UNDEF	?UNDEF	29.40	0.00	097.84	096.84	86.30	0.00	099.12	098.67	098.48	: 099.33
24	26.80	0.00	?UNDEF	?UNDEF	29.90	0.00	097.79	096.84	69.70	0.00	099.15	098.73	098.52	: 099.33

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	DWORSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	
1	1.30	0.00	107.10	?UNDEF	?UNDEF	?UNDEF	15.20	0.00	099.44	099.21	15.40	0.00	?UNDEF	?UNDEF	
2	1.30	0.00	107.07	?UNDEF	?UNDEF	?UNDEF	15.40	0.00	099.34	099.10	15.30	0.00	?UNDEF	?UNDEF	
3	1.30	0.00	107.01	?UNDEF	?UNDEF	?UNDEF	15.10	0.00	099.34	099.07	15.50	0.00	?UNDEF	?UNDEF	
4	2.70	0.00	106.86	?UNDEF	?UNDEF	?UNDEF	14.90	0.00	099.38	099.14	18.20	0.00	?UNDEF	?UNDEF	
5	4.70	0.00	103.52	?UNDEF	?UNDEF	?UNDEF	15.00	0.00	099.35	098.99	15.30	0.00	?UNDEF	?UNDEF	
6	6.10	0.00	102.73	?UNDEF	?UNDEF	?UNDEF	21.10	0.00	099.34	099.09	18.30	0.00	?UNDEF	?UNDEF	
7	6.10	0.00	097.62	?UNDEF	?UNDEF	?UNDEF	23.50	0.00	099.32	099.09	26.80	0.00	?UNDEF	?UNDEF	
8	6.20	0.00	097.22	?UNDEF	?UNDEF	?UNDEF	21.50	0.00	099.31	099.58	27.70	0.00	?UNDEF	?UNDEF	
9	6.10	0.00	097.17	?UNDEF	?UNDEF	?UNDEF	23.20	0.00	099.26	099.75	34.80	0.00	?UNDEF	?UNDEF	
10	6.00	0.00	097.18	?UNDEF	?UNDEF	?UNDEF	21.40	0.00	099.39	099.33	37.50	0.00	?UNDEF	?UNDEF	
11	6.00	0.00	095.61	?UNDEF	?UNDEF	?UNDEF	22.50	0.00	099.42	099.34	34.60	0.00	?UNDEF	?UNDEF	
12	5.90	0.00	095.29	?UNDEF	?UNDEF	?UNDEF	20.90	0.00	099.47	100.28	34.40	0.00	?UNDEF	?UNDEF	
13	6.00	0.00	095.39	?UNDEF	?UNDEF	?UNDEF	20.70	0.00	099.68	099.58	34.90	0.00	?UNDEF	?UNDEF	
14	5.90	0.00	095.42	?UNDEF	?UNDEF	?UNDEF	20.40	0.00	099.71	099.50	34.80	0.00	?UNDEF	?UNDEF	
15	5.90	0.00	095.30	?UNDEF	?UNDEF	?UNDEF	20.70	0.00	099.71	099.48	35.60	0.00	?UNDEF	?UNDEF	
16	6.00	0.00	095.15	?UNDEF	?UNDEF	?UNDEF	21.30	0.00	099.67	099.46	40.00	0.00	?UNDEF	?UNDEF	
17	6.00	0.00	095.14	?UNDEF	?UNDEF	?UNDEF	28.80	0.00	099.68	099.34	48.10	0.00	?UNDEF	?UNDEF	
18	6.10	0.00	095.10	?UNDEF	?UNDEF	?UNDEF	30.60	0.00	099.69	099.31	49.00	0.00	?UNDEF	?UNDEF	
19	5.90	0.00	095.14	?UNDEF	?UNDEF	?UNDEF	39.40	0.00	099.72	099.76	48.90	0.00	?UNDEF	?UNDEF	
20	5.90	0.00	095.00	?UNDEF	?UNDEF	?UNDEF	28.60	0.00	099.72	099.52	48.60	0.00	?UNDEF	?UNDEF	
21	5.90	0.00	095.15	?UNDEF	?UNDEF	?UNDEF	29.60	0.00	099.73	099.55	48.90	0.00	?UNDEF	?UNDEF	
22	5.90	0.00	095.00	?UNDEF	?UNDEF	?UNDEF	20.00	0.00	099.83	099.76	33.60	0.00	?UNDEF	?UNDEF	
23	6.10	0.00	095.12	?UNDEF	?UNDEF	?UNDEF	19.60	0.00	099.71	099.63	30.70	0.00	?UNDEF	?UNDEF	
24	6.00	0.00	095.12	?UNDEF	?UNDEF	?UNDEF	15.50	0.00	099.91	099.72	14.50	0.00	?UNDEF	?UNDEF	
	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT	
1	19.30	0.00	?UNDEF	?UNDEF	20.50	0.00	096.69	096.01	112.70	0.00	098.12	097.55	097.46	098.47	
2	16.20	0.00	?UNDEF	?UNDEF	17.50	0.00	096.65	095.87	106.00	0.00	098.04	097.50	097.39	098.42	
3	13.50	0.00	?UNDEF	?UNDEF	12.40	0.00	096.61	095.86	99.60	0.00	098.06	097.52	097.38	098.29	
4	13.20	0.00	?UNDEF	?UNDEF	12.30	0.00	096.62	095.86	111.60	0.00	098.08	097.63	097.52	098.26	
5	13.50	0.00	?UNDEF	?UNDEF	12.90	0.00	096.61	095.84	145.30	0.00	098.06	097.63	097.51	098.26	
6	20.50	0.00	?UNDEF	?UNDEF	18.60	0.00	096.58	096.22	158.50	0.00	098.03	097.61	097.47	098.26	
7	29.70	0.00	?UNDEF	?UNDEF	27.40	0.00	096.61	095.95	159.40	0.00	097.99	097.57	097.50	098.25	
8	32.30	0.00	?UNDEF	?UNDEF	36.70	0.00	096.61	096.06	158.20	0.00	097.98	097.53	097.47	098.10	
9	39.90	0.00	?UNDEF	?UNDEF	44.90	0.00	096.55	095.90	155.50	0.00	097.94	097.53	097.32	098.20	
10	44.10	0.00	?UNDEF	?UNDEF	49.40	0.00	096.55	096.03	155.30	0.00	097.94	097.48	097.41	098.23	
11	44.10	0.00	?UNDEF	?UNDEF	49.60	0.00	096.58	095.95	156.20	0.00	098.09	097.49	097.42	098.23	
12	43.60	0.00	?UNDEF	?UNDEF	50.00	0.00	096.67	096.17	156.30	0.00	098.16	097.60	097.49	098.32	
13	45.00	0.00	?UNDEF	?UNDEF	49.90	0.00	096.85	096.22	156.60	0.00	098.21	097.65	097.56	098.67	
14	45.10	0.00	?UNDEF	?UNDEF	49.90	0.00	096.71	096.09	157.30	0.00	098.21	097.66	097.59	098.80	
15	44.40	0.00	?UNDEF	?UNDEF	49.90	0.00	096.84	096.04	156.20	0.00	098.25	097.80	097.59	098.93	
16	44.40	0.00	?UNDEF	?UNDEF	51.70	0.00	096.77	096.08	156.90	0.00	098.23	097.67	097.49	099.06	
17	49.90	0.00	?UNDEF	?UNDEF	59.70	0.00	096.79	096.09	162.40	0.00	098.26	097.68	097.52	099.10	
18	55.00	0.00	?UNDEF	?UNDEF	61.30	0.00	096.80	096.14	165.10	0.00	098.27	097.70	097.52	099.11	
19	56.90	0.00	?UNDEF	?UNDEF	60.60	0.00	096.80	096.00	169.70	0.00	098.32	097.71	097.53	099.12	
20	60.10	0.00	?UNDEF	?UNDEF	65.90	0.00	096.80	096.00	160.60	0.00	098.12	097.55	097.62	098.95	
21	59.60	0.00	?UNDEF	?UNDEF	60.90	0.00	096.79	096.00	137.50	0.00	098.17	097.70	097.66	098.98	
22	58.50	0.00	?UNDEF	?UNDEF	61.90	0.00	096.82	096.03	132.60	0.00	098.19	097.79	097.73	099.03	
23	39.10	0.00	?UNDEF	?UNDEF	59.40	0.00	096.88	096.45	132.20	0.00	098.26	097.66	097.74	099.07	
24	27.80	0.00	?UNDEF	?UNDEF	42.40	0.00	096.96	096.16	124.70	0.00	098.32	097.89	097.79	099.07	

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HOUR	DWRSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.30	0.00	107.18	?UNDEF	?UNDEF	?UNDEF	11.70	0.00	099.13	099.45	18.40	0.00	?UNDEF	?UNDEF
2	1.30	0.00	107.16	?UNDEF	?UNDEF	?UNDEF	11.50	0.00	099.12	099.32	12.90	0.00	?UNDEF	?UNDEF
3	1.30	0.00	107.09	?UNDEF	?UNDEF	?UNDEF	11.50	0.00	099.12	099.31	12.20	0.00	?UNDEF	?UNDEF
4	1.30	0.00	107.25	?UNDEF	?UNDEF	?UNDEF	11.50	0.00	099.12	099.31	11.90	0.00	?UNDEF	?UNDEF
5	1.30	0.00	107.13	?UNDEF	?UNDEF	?UNDEF	11.70	0.00	099.08	099.30	11.60	0.00	?UNDEF	?UNDEF
6	1.30	0.00	107.10	?UNDEF	?UNDEF	?UNDEF	11.80	0.00	099.11	099.24	11.40	0.00	?UNDEF	?UNDEF
7	1.30	0.00	107.13	?UNDEF	?UNDEF	?UNDEF	21.00	0.00	099.07	099.26	11.40	0.00	?UNDEF	?UNDEF
8	1.30	0.00	107.21	?UNDEF	?UNDEF	?UNDEF	21.40	0.00	099.08	099.27	12.30	0.00	?UNDEF	?UNDEF
9	1.30	0.00	107.61	?UNDEF	?UNDEF	?UNDEF	21.60	0.00	099.24	099.28	21.60	0.00	?UNDEF	?UNDEF
10	1.30	0.00	107.97	?UNDEF	?UNDEF	?UNDEF	21.90	0.00	099.28	099.32	21.70	0.00	?UNDEF	?UNDEF
11	1.30	0.00	108.12	?UNDEF	?UNDEF	?UNDEF	20.00	0.00	099.43	099.35	21.20	0.00	?UNDEF	?UNDEF
12	1.30	0.00	108.32	?UNDEF	?UNDEF	?UNDEF	20.00	0.00	099.45	099.40	19.90	0.00	?UNDEF	?UNDEF
13	1.30	0.00	108.53	?UNDEF	?UNDEF	?UNDEF	20.00	0.00	099.55	099.63	19.90	0.00	?UNDEF	?UNDEF
14	1.30	0.00	108.22	?UNDEF	?UNDEF	?UNDEF	20.00	0.00	099.64	099.60	21.40	0.00	?UNDEF	?UNDEF
15	1.30	0.00	107.76	?UNDEF	?UNDEF	?UNDEF	19.90	0.00	099.63	099.57	21.60	0.00	?UNDEF	?UNDEF
16	1.30	0.00	107.44	?UNDEF	?UNDEF	?UNDEF	19.20	0.00	099.73	099.55	19.70	0.00	?UNDEF	?UNDEF
17	1.30	0.00	107.28	?UNDEF	?UNDEF	?UNDEF	20.70	0.00	099.71	099.48	19.90	0.00	?UNDEF	?UNDEF
18	1.30	0.00	107.15	?UNDEF	?UNDEF	?UNDEF	20.90	0.00	099.63	099.53	19.90	0.00	?UNDEF	?UNDEF
19	1.30	0.00	107.28	?UNDEF	?UNDEF	?UNDEF	20.80	0.00	099.55	099.50	22.90	0.00	?UNDEF	?UNDEF
20	1.30	0.00	107.27	?UNDEF	?UNDEF	?UNDEF	20.80	0.00	099.51	099.43	19.50	0.00	?UNDEF	?UNDEF
21	1.30	0.00	107.09	?UNDEF	?UNDEF	?UNDEF	21.50	0.00	099.43	099.36	19.70	0.00	?UNDEF	?UNDEF
22	1.30	0.00	107.06	?UNDEF	?UNDEF	?UNDEF	18.50	0.00	099.36	099.32	18.00	0.00	?UNDEF	?UNDEF
23	1.30	0.00	107.02	?UNDEF	?UNDEF	?UNDEF	18.30	0.00	099.44	099.27	17.80	0.00	?UNDEF	?UNDEF
24	1.30	0.00	106.99	?UNDEF	?UNDEF	?UNDEF	15.50	0.00	099.48	099.22	16.70	0.00	?UNDEF	?UNDEF
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO	
	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	18.50	0.00	?UNDEF	?UNDEF	8.90	0.00	096.93	096.18	95.30	0.00	098.44	097.74	097.80	098.73
2	20.20	0.00	?UNDEF	?UNDEF	10.40	0.00	096.93	096.13	94.50	0.00	098.27	097.69	097.75	098.70
3	19.90	0.00	?UNDEF	?UNDEF	8.90	0.00	096.95	096.30	96.00	0.00	098.27	097.72	097.63	098.70
4	14.50	0.00	?UNDEF	?UNDEF	9.10	0.00	097.08	096.26	95.60	0.00	098.28	097.72	097.66	098.58
5	11.50	0.00	?UNDEF	?UNDEF	12.90	0.00	097.10	096.30	96.60	0.00	098.32	097.76	097.68	098.62
6	11.50	0.00	?UNDEF	?UNDEF	12.50	0.00	097.09	096.36	96.50	0.00	098.35	097.76	097.73	098.61
7	11.90	0.00	?UNDEF	?UNDEF	10.70	0.00	097.27	096.38	125.00	0.00	098.37	097.76	097.82	098.54
8	11.80	0.00	?UNDEF	?UNDEF	13.00	0.00	097.26	096.89	104.80	0.00	098.38	097.78	097.85	098.53
9	18.70	0.00	?UNDEF	?UNDEF	19.40	0.00	097.29	096.79	103.60	0.00	098.45	097.88	097.91	098.58
10	20.70	0.00	?UNDEF	?UNDEF	21.10	0.00	097.38	096.93	92.00	0.00	098.42	097.83	097.88	098.57
11	22.10	0.00	?UNDEF	?UNDEF	19.50	0.00	097.21	096.82	90.50	0.00	098.37	097.83	097.99	098.70
12	20.60	0.00	?UNDEF	?UNDEF	20.00	0.00	097.34	096.84	87.80	0.00	098.44	097.83	098.04	098.87
13	20.70	0.00	?UNDEF	?UNDEF	21.10	0.00	097.21	096.98	86.90	0.00	098.40	098.00	098.19	098.95
14	20.70	0.00	?UNDEF	?UNDEF	19.40	0.00	097.22	097.14	86.80	0.00	098.45	098.01	098.36	099.07
15	22.40	0.00	?UNDEF	?UNDEF	19.30	0.00	097.31	096.82	88.70	0.00	098.69	098.01	098.20	099.12
16	21.20	0.00	?UNDEF	?UNDEF	19.70	0.00	097.26	097.00	82.70	0.00	098.77	097.95	098.15	099.11
17	20.20	0.00	?UNDEF	?UNDEF	19.70	0.00	097.22	096.53	82.50	0.00	098.73	097.86	098.10	099.15
18	20.70	0.00	?UNDEF	?UNDEF	21.50	0.00	097.03	096.33	84.70	0.00	098.54	097.85	097.93	099.08
19	20.70	0.00	?UNDEF	?UNDEF	19.70	0.00	096.96	096.30	98.20	0.00	098.62	097.65	097.74	099.00
20	20.50	0.00	?UNDEF	?UNDEF	23.10	0.00	096.94	096.12	88.20	0.00	098.48	097.77	097.70	098.95
21	20.40	0.00	?UNDEF	?UNDEF	21.80	0.00	096.77	096.00	84.20	0.00	098.26	097.55	097.60	098.86
22	20.30	0.00	?UNDEF	?UNDEF	21.70	0.00	096.76	096.24	98.30	0.00	098.22	004.17	097.70	098.78
23	20.50	0.00	?UNDEF	?UNDEF	21.70	0.00	096.74	096.32	100.70	0.00	098.18	097.61	097.62	098.65
24	20.80	0.00	?UNDEF	?UNDEF	22.00	0.00	096.70	096.18	103.00	0.00	098.10	097.54	097.44	098.65

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HOUR	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.30	0.00	106.95	?UNDEF	?UNDEF	?UNDEF	12.00	0.00	098.74	098.91	0.00	0.00	?UNDEF	?UNDEF
2	1.30	0.00	107.01	?UNDEF	?UNDEF	?UNDEF	12.30	0.00	098.69	098.91	0.00	0.00	?UNDEF	?UNDEF
3	1.30	0.00	106.94	?UNDEF	?UNDEF	?UNDEF	20.90	0.00	098.59	098.90	0.00	0.00	?UNDEF	?UNDEF
4	1.30	0.00	106.95	?UNDEF	?UNDEF	?UNDEF	22.10	0.00	098.66	098.70	1.80	0.00	?UNDEF	?UNDEF
5	1.30	0.00	106.87	?UNDEF	?UNDEF	?UNDEF	27.20	0.00	098.65	098.86	22.00	0.00	?UNDEF	?UNDEF
6	1.30	0.00	106.85	?UNDEF	?UNDEF	?UNDEF	27.90	0.00	098.67	098.93	21.60	0.00	?UNDEF	?UNDEF
7	1.30	0.00	106.88	?UNDEF	?UNDEF	?UNDEF	24.30	0.00	098.71	098.78	21.50	0.00	?UNDEF	?UNDEF
8	1.30	0.00	106.76	?UNDEF	?UNDEF	?UNDEF	22.00	0.00	098.71	099.03	21.60	0.00	?UNDEF	?UNDEF
9	1.30	0.00	106.97	?UNDEF	?UNDEF	?UNDEF	22.80	0.00	098.74	098.93	21.80	0.00	?UNDEF	?UNDEF
10	1.30	0.00	107.28	?UNDEF	?UNDEF	?UNDEF	28.70	0.00	098.76	099.13	25.80	0.00	?UNDEF	?UNDEF
11	1.30	0.00	107.67	?UNDEF	?UNDEF	?UNDEF	26.10	0.00	098.99	099.22	26.40	0.00	?UNDEF	?UNDEF
12	1.30	0.00	108.08	?UNDEF	?UNDEF	?UNDEF	25.90	0.00	099.03	099.24	27.30	0.00	?UNDEF	?UNDEF
13	1.30	0.00	108.17	?UNDEF	?UNDEF	?UNDEF	25.80	0.00	099.03	099.31	27.40	0.00	?UNDEF	?UNDEF
14	1.30	0.00	108.12	?UNDEF	?UNDEF	?UNDEF	22.90	0.00	099.23	099.31	24.90	0.00	?UNDEF	?UNDEF
15	1.30	0.00	107.82	?UNDEF	?UNDEF	?UNDEF	22.00	0.00	099.21	099.28	24.20	0.00	?UNDEF	?UNDEF
16	1.30	0.00	107.57	?UNDEF	?UNDEF	?UNDEF	22.00	0.00	099.21	099.31	24.10	0.00	?UNDEF	?UNDEF
17	1.30	0.00	107.29	?UNDEF	?UNDEF	?UNDEF	22.00	0.00	099.16	099.38	24.30	0.00	?UNDEF	?UNDEF
18	1.30	0.00	107.05	?UNDEF	?UNDEF	?UNDEF	27.70	0.00	099.09	099.81	27.00	0.00	?UNDEF	?UNDEF
19	1.30	0.00	107.29	?UNDEF	?UNDEF	?UNDEF	28.70	0.00	099.11	099.71	27.50	0.00	?UNDEF	?UNDEF
20	1.30	0.00	106.94	?UNDEF	?UNDEF	?UNDEF	28.00	0.00	099.12	099.48	28.10	0.00	?UNDEF	?UNDEF
21	1.30	0.00	107.06	?UNDEF	?UNDEF	?UNDEF	28.10	0.00	099.05	099.36	27.50	0.00	?UNDEF	?UNDEF
22	1.30	0.00	107.05	?UNDEF	?UNDEF	?UNDEF	27.80	0.00	099.09	099.38	27.20	0.00	?UNDEF	?UNDEF
23	1.30	0.00	107.12	?UNDEF	?UNDEF	?UNDEF	22.30	0.00	099.16	099.49	22.70	0.00	?UNDEF	?UNDEF
24	1.30	0.00	107.18	?UNDEF	?UNDEF	?UNDEF	12.00	0.00	099.19	099.51	21.50	0.00	?UNDEF	?UNDEF
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO	
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	.30	0.00	?UNDEF	?UNDEF	9.20	0.00	096.64	095.87	87.80	0.00	098.05	097.59	097.39	098.17
2	.30	0.00	?UNDEF	?UNDEF	9.00	0.00	096.61	095.83	79.20	0.00	098.15	097.48	097.39	098.12
3	.40	0.00	?UNDEF	?UNDEF	9.00	0.00	096.59	095.79	84.70	0.00	098.14	097.55	097.35	098.11
4	1.80	0.00	?UNDEF	?UNDEF	9.00	0.00	096.63	095.79	105.90	0.00	098.04	097.59	097.40	098.09
5	.30	0.00	?UNDEF	?UNDEF	9.00	0.00	096.58	095.78	106.70	0.00	097.96	097.68	097.44	098.11
6	1.00	0.00	?UNDEF	?UNDEF	9.00	0.00	096.51	095.97	118.80	0.00	097.96	097.64	097.39	098.14
7	23.70	0.00	?UNDEF	?UNDEF	9.20	0.00	096.69	096.03	124.30	0.00	098.05	097.63	097.50	098.20
8	24.70	0.00	?UNDEF	?UNDEF	14.00	0.00	096.72	096.02	124.90	0.00	097.98	097.56	097.47	098.17
9	21.50	0.00	?UNDEF	?UNDEF	12.90	0.00	096.81	096.03	123.20	0.00	097.94	097.55	097.55	098.14
10	28.80	0.00	?UNDEF	?UNDEF	18.10	0.00	096.74	096.09	123.20	0.00	098.04	097.64	097.52	098.11
11	27.00	0.00	?UNDEF	?UNDEF	27.00	0.00	096.74	096.41	121.30	0.00	098.05	097.62	097.65	098.26
12	27.10	0.00	?UNDEF	?UNDEF	27.30	0.00	096.80	096.82	120.10	0.00	098.23	097.80	097.84	098.27
13	27.10	0.00	?UNDEF	?UNDEF	18.70	0.00	096.88	096.64	141.40	0.00	098.41	097.86	097.89	098.40
14	27.10	0.00	?UNDEF	?UNDEF	19.30	0.00	096.88	096.67	142.70	0.00	098.26	097.84	097.91	098.64
15	27.30	0.00	?UNDEF	?UNDEF	17.90	0.00	096.90	096.49	143.20	0.00	098.28	097.84	097.79	098.89
16	27.20	0.00	?UNDEF	?UNDEF	18.10	0.00	096.89	096.47	143.60	0.00	098.26	097.71	097.78	098.94
17	27.60	0.00	?UNDEF	?UNDEF	24.40	0.00	096.90	096.39	133.60	0.00	098.24	097.72	097.63	098.93
18	27.20	0.00	?UNDEF	?UNDEF	25.20	0.00	096.93	096.90	142.60	0.00	098.30	097.75	097.65	098.94
19	26.80	0.00	?UNDEF	?UNDEF	24.50	0.00	096.95	096.26	143.10	0.00	098.30	097.73	097.66	098.82
20	17.00	0.00	?UNDEF	?UNDEF	13.50	0.00	097.00	096.23	134.70	0.00	098.41	097.69	097.75	098.79
21	16.20	0.00	?UNDEF	?UNDEF	9.20	0.00	097.00	096.07	123.60	0.00	098.41	097.69	097.63	098.79
22	16.20	0.00	?UNDEF	?UNDEF	9.20	0.00	097.04	096.15	121.60	0.00	098.27	097.70	097.68	098.82
23	16.30	0.00	?UNDEF	?UNDEF	9.00	0.00	097.04	096.12	120.10	0.00	098.29	097.72	097.67	098.82
24	16.50	0.00	?UNDEF	?UNDEF	9.10	0.00	096.91	096.12	94.40	0.00	098.45	097.78	097.69	098.82

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HOUR	DWRSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.30	0.00	105.86	?UNDEF	?UNDEF	?UNDEF	16.10	0.00	099.20	099.52	.90	0.00	?UNDEF	?UNDEF
2	1.30	0.00	106.69	?UNDEF	?UNDEF	?UNDEF	16.40	0.00	099.20	099.42	0.00	0.00	?UNDEF	?UNDEF
3	1.30	0.00	106.98	?UNDEF	?UNDEF	?UNDEF	16.10	0.00	099.27	099.47	0.00	0.00	?UNDEF	?UNDEF
4	1.30	0.00	107.09	?UNDEF	?UNDEF	?UNDEF	16.10	0.00	099.32	099.48	0.00	0.00	?UNDEF	?UNDEF
5	1.30	0.00	106.98	?UNDEF	?UNDEF	?UNDEF	16.70	0.00	099.39	099.43	12.80	0.00	?UNDEF	?UNDEF
6	1.30	0.00	107.02	?UNDEF	?UNDEF	?UNDEF	29.60	0.00	099.36	099.40	27.20	0.00	?UNDEF	?UNDEF
7	1.30	0.00	107.05	?UNDEF	?UNDEF	?UNDEF	32.20	0.00	099.29	099.39	34.60	0.00	?UNDEF	?UNDEF
8	1.30	0.00	107.19	?UNDEF	?UNDEF	?UNDEF	31.60	0.00	099.37	099.44	35.20	0.00	?UNDEF	?UNDEF
9	1.30	0.00	107.31	?UNDEF	?UNDEF	?UNDEF	31.70	0.00	099.11	099.30	38.90	0.00	?UNDEF	?UNDEF
10	1.30	0.00	108.77	?UNDEF	?UNDEF	?UNDEF	31.60	0.00	099.12	099.30	39.50	0.00	?UNDEF	?UNDEF
11	1.30	0.00	109.23	?UNDEF	?UNDEF	?UNDEF	31.50	0.00	099.15	099.34	40.20	0.00	?UNDEF	?UNDEF
12	1.30	0.00	108.84	?UNDEF	?UNDEF	?UNDEF	31.90	0.00	099.36	099.53	39.60	0.00	?UNDEF	?UNDEF
13	1.30	0.00	108.39	?UNDEF	?UNDEF	?UNDEF	31.10	0.00	099.39	099.42	39.70	0.00	?UNDEF	?UNDEF
14	1.30	0.00	108.14	?UNDEF	?UNDEF	?UNDEF	26.40	0.00	099.33	099.43	39.60	0.00	?UNDEF	?UNDEF
15	1.30	0.00	107.93	?UNDEF	?UNDEF	?UNDEF	25.90	0.00	099.29	099.36	34.80	0.00	?UNDEF	?UNDEF
16	1.30	0.00	107.60	?UNDEF	?UNDEF	?UNDEF	21.80	0.00	099.12	099.31	34.30	0.00	?UNDEF	?UNDEF
17	1.30	0.00	107.45	?UNDEF	?UNDEF	?UNDEF	21.40	0.00	099.03	099.26	27.10	0.00	?UNDEF	?UNDEF
18	1.30	0.00	107.23	?UNDEF	?UNDEF	?UNDEF	23.60	0.00	099.00	099.19	21.30	0.00	?UNDEF	?UNDEF
19	1.30	0.00	107.45	?UNDEF	?UNDEF	?UNDEF	23.00	0.00	099.03	099.89	20.70	0.00	?UNDEF	?UNDEF
20	1.30	0.00	107.19	?UNDEF	?UNDEF	?UNDEF	21.40	0.00	098.99	099.16	20.70	0.00	?UNDEF	?UNDEF
21	1.30	0.00	107.10	?UNDEF	?UNDEF	?UNDEF	21.10	0.00	098.95	099.02	20.50	0.00	?UNDEF	?UNDEF
22	1.30	0.00	107.08	?UNDEF	?UNDEF	?UNDEF	14.10	0.00	098.80	099.50	12.70	0.00	?UNDEF	?UNDEF
23	1.30	0.00	107.00	?UNDEF	?UNDEF	?UNDEF	12.20	0.00	098.75	099.76	15.00	0.00	?UNDEF	?UNDEF
24	1.30	0.00	107.10	?UNDEF	?UNDEF	?UNDEF	12.00	0.00	098.74	099.09	4.30	0.00	?UNDEF	?UNDEF
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO	
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	12.80	0.00	?UNDEF	?UNDEF	11.00	0.00	096.66	095.78	93.00	0.00	098.21	097.53	099.10	098.21
2	.30	0.00	?UNDEF	?UNDEF	9.00	0.00	096.71	095.74	90.60	0.00	098.15	097.63	098.84	098.17
3	1.80	0.00	?UNDEF	?UNDEF	9.00	0.00	096.61	095.81	92.40	0.00	098.19	097.64	098.44	098.25
4	.40	0.00	?UNDEF	?UNDEF	9.00	0.00	096.61	095.82	117.50	0.00	098.22	097.63	098.21	098.25
5	13.10	0.00	?UNDEF	?UNDEF	9.20	0.00	096.61	095.81	154.10	0.00	098.40	097.67	098.12	098.23
6	22.10	0.00	?UNDEF	?UNDEF	14.60	0.00	096.65	095.85	154.40	0.00	098.28	097.69	097.84	098.27
7	33.80	0.00	?UNDEF	?UNDEF	27.20	0.00	096.77	096.25	158.80	0.00	098.33	097.77	097.96	098.15
8	38.70	0.00	?UNDEF	?UNDEF	37.20	0.00	096.76	095.98	152.00	0.00	098.32	097.76	097.81	098.21
9	38.20	0.00	?UNDEF	?UNDEF	41.90	0.00	096.86	096.18	149.30	0.00	098.33	097.75	097.93	098.14
10	38.20	0.00	?UNDEF	?UNDEF	40.10	0.00	096.81	096.69	146.90	0.00	098.35	097.81	098.00	098.09
11	38.10	0.00	?UNDEF	?UNDEF	40.00	0.00	096.85	096.20	145.90	0.00	098.30	097.76	098.22	098.19
12	38.10	0.00	?UNDEF	?UNDEF	39.90	0.00	096.90	096.28	138.10	0.00	098.49	097.82	098.24	098.30
13	40.20	0.00	?UNDEF	?UNDEF	40.50	0.00	096.90	096.30	141.20	0.00	098.53	097.86	098.27	098.44
14	37.50	0.00	?UNDEF	?UNDEF	39.70	0.00	096.92	096.44	142.00	0.00	098.50	097.82	098.28	098.55
15	38.60	0.00	?UNDEF	?UNDEF	36.20	0.00	096.86	096.34	140.70	0.00	098.48	097.77	098.10	098.66
16	38.10	0.00	?UNDEF	?UNDEF	35.70	0.00	096.81	096.18	131.30	0.00	098.57	097.76	097.96	098.60
17	37.40	0.00	?UNDEF	?UNDEF	37.10	0.00	096.77	096.13	130.00	0.00	098.57	097.73	097.91	098.73
18	36.70	0.00	?UNDEF	?UNDEF	35.60	0.00	096.77	096.15	134.70	0.00	098.44	097.72	097.76	098.61
19	27.60	0.00	?UNDEF	?UNDEF	29.60	0.00	096.78	096.64	133.70	0.00	098.41	097.72	097.76	098.60
20	27.60	0.00	?UNDEF	?UNDEF	28.70	0.00	096.77	096.12	133.00	0.00	098.39	097.73	097.62	098.59
21	27.00	0.00	?UNDEF	?UNDEF	28.30	0.00	096.76	096.06	124.40	0.00	098.38	097.69	097.58	098.50
22	20.00	0.00	?UNDEF	?UNDEF	20.10	0.00	096.72	095.94	105.90	0.00	098.26	097.71	097.44	098.39
23	13.10	0.00	?UNDEF	?UNDEF	12.70	0.00	096.68	095.90	94.90	0.00	098.18	097.62	097.40	098.34
24	.30	0.00	?UNDEF	?UNDEF	9.20	0.00	096.67	095.88	87.80	0.00	098.19	097.62	097.42	098.34

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DWRSHAK				STREAMFLOW			LOWER GRANITE				LITTLE GOOSE			
HOUR	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.
1	1.30	0.00	106.76	?UNDEF	?UNDEF	?UNDEF	21.30	0.00	098.39	098.84	13.30	0.00	?UNDEF	?UNDEF
2	1.30	0.00	106.77	?UNDEF	?UNDEF	?UNDEF	21.70	0.00	098.52	098.85	16.90	0.00	?UNDEF	?UNDEF
3	1.30	0.00	106.92	?UNDEF	?UNDEF	?UNDEF	21.70	0.00	098.58	098.88	17.30	0.00	?UNDEF	?UNDEF
4	1.30	0.00	106.80	?UNDEF	?UNDEF	?UNDEF	27.80	0.00	098.76	098.92	21.00	0.00	?UNDEF	?UNDEF
5	1.30	0.00	106.81	?UNDEF	?UNDEF	?UNDEF	34.90	0.00	098.81	098.96	27.30	0.00	?UNDEF	?UNDEF
6	1.30	0.00	106.96	?UNDEF	?UNDEF	?UNDEF	35.20	0.00	098.81	098.98	34.70	0.00	?UNDEF	?UNDEF
7	1.30	0.00	107.02	?UNDEF	?UNDEF	?UNDEF	36.00	0.00	098.85	099.04	34.80	0.00	?UNDEF	?UNDEF
8	1.30	0.00	106.87	?UNDEF	?UNDEF	?UNDEF	37.50	0.00	098.89	099.08	36.40	0.00	?UNDEF	?UNDEF
9	1.30	0.00	107.12	?UNDEF	?UNDEF	?UNDEF	37.50	0.00	098.90	099.06	36.50	0.00	?UNDEF	?UNDEF
10	1.80	0.00	107.17	?UNDEF	?UNDEF	?UNDEF	37.20	0.00	098.89	099.08	40.50	0.00	?UNDEF	?UNDEF
11	1.50	0.00	103.98	?UNDEF	?UNDEF	?UNDEF	32.50	0.00	098.89	099.21	40.80	0.00	?UNDEF	?UNDEF
12	1.50	0.00	105.54	?UNDEF	?UNDEF	?UNDEF	31.40	0.00	099.10	099.23	41.50	0.00	?UNDEF	?UNDEF
13	1.40	0.00	104.36	?UNDEF	?UNDEF	?UNDEF	31.10	0.00	099.10	099.27	40.90	0.00	?UNDEF	?UNDEF
14	1.30	0.00	103.60	?UNDEF	?UNDEF	?UNDEF	31.40	0.00	099.11	099.68	41.00	0.00	?UNDEF	?UNDEF
15	1.30	0.00	105.19	?UNDEF	?UNDEF	?UNDEF	30.90	0.00	098.99	099.43	41.00	0.00	?UNDEF	?UNDEF
16	1.30	0.00	106.79	?UNDEF	?UNDEF	?UNDEF	31.60	0.00	098.98	099.83	41.00	0.00	?UNDEF	?UNDEF
17	2.40	0.00	106.82	?UNDEF	?UNDEF	?UNDEF	30.80	0.00	098.99	099.43	41.80	0.00	?UNDEF	?UNDEF
18	4.30	0.00	098.92	?UNDEF	?UNDEF	?UNDEF	32.10	0.00	099.15	099.35	40.50	0.00	?UNDEF	?UNDEF
19	5.60	0.00	106.82	?UNDEF	?UNDEF	?UNDEF	30.20	0.00	099.22	099.59	37.50	0.00	?UNDEF	?UNDEF
20	4.30	0.00	096.09	?UNDEF	?UNDEF	?UNDEF	25.60	0.00	099.11	099.30	37.40	0.00	?UNDEF	?UNDEF
21	2.50	0.00	099.83	?UNDEF	?UNDEF	?UNDEF	24.60	0.00	099.15	099.35	31.40	0.00	?UNDEF	?UNDEF
22	1.30	0.00	098.65	?UNDEF	?UNDEF	?UNDEF	24.00	0.00	099.12	099.35	28.10	0.00	?UNDEF	?UNDEF
23	1.30	0.00	098.70	?UNDEF	?UNDEF	?UNDEF	25.50	0.00	099.15	099.32	30.90	0.00	?UNDEF	?UNDEF
24	1.30	0.00	103.58	?UNDEF	?UNDEF	?UNDEF	16.50	0.00	099.35	100.20	14.20	0.00	?UNDEF	?UNDEF
LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO		
HOUR	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT
1	11.70	0.00	?UNDEF	?UNDEF	10.50	0.00	095.94	095.42	139.00	0.00	097.55	097.02	097.07	097.58
2	13.20	0.00	?UNDEF	?UNDEF	9.00	0.00	095.98	095.45	140.10	0.00	097.62	097.18	097.08	097.59
3	11.70	0.00	?UNDEF	?UNDEF	9.00	0.00	095.93	095.29	133.90	0.00	097.55	097.15	097.09	097.58
4	11.90	0.00	?UNDEF	?UNDEF	9.00	0.00	096.01	095.33	122.40	0.00	097.60	097.23	097.13	097.53
5	20.40	0.00	?UNDEF	?UNDEF	9.20	0.00	096.01	096.00	124.90	0.00	097.63	097.11	097.02	097.53
6	21.30	0.00	?UNDEF	?UNDEF	12.70	0.00	096.08	096.15	125.10	0.00	097.70	097.25	097.05	097.59
7	27.20	0.00	?UNDEF	?UNDEF	20.80	0.00	096.08	095.77	124.60	0.00	097.69	097.28	097.05	097.59
8	32.20	0.00	?UNDEF	?UNDEF	29.90	0.00	096.07	095.96	122.30	0.00	097.73	097.31	097.07	097.45
9	33.90	0.00	?UNDEF	?UNDEF	29.20	0.00	096.07	095.93	110.90	0.00	097.81	097.28	097.18	097.42
10	38.10	0.00	?UNDEF	?UNDEF	37.60	0.00	096.16	095.69	112.00	0.00	097.78	097.23	097.28	097.54
11	38.10	0.00	?UNDEF	?UNDEF	36.20	0.00	096.30	095.79	111.20	0.00	097.93	097.39	097.30	097.56
12	38.10	0.00	?UNDEF	?UNDEF	36.80	0.00	096.37	095.84	112.20	0.00	097.98	097.43	097.38	097.77
13	39.90	0.00	?UNDEF	?UNDEF	40.40	0.00	096.25	096.39	114.80	0.00	098.02	097.31	097.53	097.76
14	39.70	0.00	?UNDEF	?UNDEF	42.10	0.00	096.44	095.94	127.20	0.00	098.04	097.48	097.43	097.81
15	40.70	0.00	?UNDEF	?UNDEF	40.40	0.00	096.43	095.89	127.40	0.00	098.02	097.46	097.38	097.91
16	39.80	0.00	?UNDEF	?UNDEF	40.10	0.00	096.44	096.03	142.80	0.00	098.07	097.48	097.41	098.19
17	39.10	0.00	?UNDEF	?UNDEF	40.00	0.00	096.42	095.76	146.80	0.00	098.12	097.45	097.67	098.25
18	40.50	0.00	?UNDEF	?UNDEF	40.70	0.00	096.49	095.69	138.20	0.00	098.08	097.42	097.86	098.24
19	39.40	0.00	?UNDEF	?UNDEF	40.00	0.00	096.50	095.69	141.60	0.00	098.17	097.47	098.16	098.25
20	39.90	0.00	?UNDEF	?UNDEF	40.00	0.00	096.54	095.76	142.70	0.00	098.16	097.47	098.42	098.32
21	37.20	0.00	?UNDEF	?UNDEF	40.00	0.00	096.59	095.78	139.60	0.00	098.21	097.50	098.56	098.22
22	34.00	0.00	?UNDEF	?UNDEF	37.20	0.00	096.58	095.79	137.50	0.00	098.20	097.48	099.10	098.24
23	31.00	0.00	?UNDEF	?UNDEF	34.10	0.00	096.62	095.79	127.00	0.00	098.21	097.52	099.42	098.12
24	20.90	0.00	?UNDEF	?UNDEF	20.80	0.00	096.64	095.82	96.30	0.00	098.26	097.59	099.45	098.12

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HOUR	DWORSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.
1	1.30	0.00	106.83	?UNDEF	?UNDEF	?UNDEF	12.50	0.00	098.80	098.84	12.20	0.00	?UNDEF	?UNDEF
2	1.30	0.00	106.76	?UNDEF	?UNDEF	?UNDEF	12.40	0.00	098.64	098.82	13.80	0.00	?UNDEF	?UNDEF
3	1.30	0.00	106.76	?UNDEF	?UNDEF	?UNDEF	12.70	0.00	099.04	098.84	11.90	0.00	?UNDEF	?UNDEF
4	1.30	0.00	106.73	?UNDEF	?UNDEF	?UNDEF	19.40	0.00	098.93	098.84	12.00	0.00	?UNDEF	?UNDEF
5	1.30	0.00	106.82	?UNDEF	?UNDEF	?UNDEF	22.80	0.00	098.81	098.85	17.70	0.00	?UNDEF	?UNDEF
6	1.30	0.00	106.81	?UNDEF	?UNDEF	?UNDEF	27.70	0.00	098.88	098.79	21.50	0.00	?UNDEF	?UNDEF
7	1.30	0.00	106.76	?UNDEF	?UNDEF	?UNDEF	27.90	0.00	098.72	098.76	22.30	0.00	?UNDEF	?UNDEF
8	1.30	0.00	106.54	?UNDEF	?UNDEF	?UNDEF	28.10	0.00	098.57	098.72	21.90	0.00	?UNDEF	?UNDEF
9	1.30	0.00	106.73	?UNDEF	?UNDEF	?UNDEF	29.50	0.00	000.00	098.79	22.00	0.00	?UNDEF	?UNDEF
10	1.30	0.00	107.12	?UNDEF	?UNDEF	?UNDEF	28.00	0.00	000.00	098.83	21.40	0.00	?UNDEF	?UNDEF
11	1.30	0.00	107.40	?UNDEF	?UNDEF	?UNDEF	28.00	0.00	000.00	098.71	17.40	0.00	?UNDEF	?UNDEF
12	1.40	0.00	108.80	?UNDEF	?UNDEF	?UNDEF	21.20	0.00	000.00	098.86	15.40	0.00	?UNDEF	?UNDEF
13	1.30	0.00	114.56	?UNDEF	?UNDEF	?UNDEF	21.20	0.00	000.00	000.00	15.20	0.00	?UNDEF	?UNDEF
14	1.30	0.00	115.64	?UNDEF	?UNDEF	?UNDEF	21.20	0.00	000.00	098.93	13.90	0.00	?UNDEF	?UNDEF
15	1.30	0.00	111.94	?UNDEF	?UNDEF	?UNDEF	21.00	0.00	000.00	098.92	16.90	0.00	?UNDEF	?UNDEF
16	1.30	0.00	111.11	?UNDEF	?UNDEF	?UNDEF	21.30	0.00	000.00	098.79	16.20	0.00	?UNDEF	?UNDEF
17	1.30	0.00	109.67	?UNDEF	?UNDEF	?UNDEF	21.00	0.00	000.00	098.95	16.40	0.00	?UNDEF	?UNDEF
18	1.30	0.00	107.92	?UNDEF	?UNDEF	?UNDEF	22.90	0.00	000.00	099.57	19.70	0.00	?UNDEF	?UNDEF
19	1.30	0.00	109.67	?UNDEF	?UNDEF	?UNDEF	21.30	0.00	000.00	099.08	12.80	0.00	?UNDEF	?UNDEF
20	1.30	0.00	106.88	?UNDEF	?UNDEF	?UNDEF	21.30	0.00	000.00	098.92	12.70	0.00	?UNDEF	?UNDEF
21	1.30	0.00	106.82	?UNDEF	?UNDEF	?UNDEF	21.80	0.00	000.00	098.85	12.70	0.00	?UNDEF	?UNDEF
22	1.30	0.00	106.85	?UNDEF	?UNDEF	?UNDEF	21.30	0.00	000.00	098.85	15.60	0.00	?UNDEF	?UNDEF
23	1.30	0.00	106.81	?UNDEF	?UNDEF	?UNDEF	21.30	0.00	000.00	098.78	12.50	0.00	?UNDEF	?UNDEF
24	1.30	0.00	106.88	?UNDEF	?UNDEF	?UNDEF	21.30	0.00	000.00	098.83	12.80	0.00	?UNDEF	?UNDEF
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO	
	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB	%SAT. TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT. TAILW.	GAS % SAT
1	13.10	0.00	?UNDEF	?UNDEF	12.30	0.00	095.94	095.29	114.10	0.00	097.29	096.60	096.80	097.31
2	13.00	0.00	?UNDEF	?UNDEF	12.00	0.00	095.91	095.23	115.60	0.00	097.27	096.61	096.65	097.27
3	13.20	0.00	?UNDEF	?UNDEF	12.20	0.00	095.94	095.38	121.50	0.00	097.19	096.64	096.67	097.27
4	14.90	0.00	?UNDEF	?UNDEF	13.30	0.00	095.95	095.44	121.60	0.00	097.19	096.69	096.70	097.32
5	13.20	0.00	?UNDEF	?UNDEF	13.00	0.00	095.94	095.27	123.90	0.00	097.29	096.61	096.66	097.32
6	17.50	0.00	?UNDEF	?UNDEF	18.00	0.00	096.03	095.25	140.20	0.00	097.28	096.62	096.63	097.26
7	17.50	0.00	?UNDEF	?UNDEF	18.10	0.00	095.87	095.19	144.80	0.00	097.22	096.55	096.56	097.14
8	18.80	0.00	?UNDEF	?UNDEF	19.50	0.00	095.95	095.59	147.60	0.00	097.16	096.50	096.55	097.08
9	18.30	0.00	?UNDEF	?UNDEF	18.10	0.00	095.93	095.31	144.50	0.00	097.19	096.49	096.55	097.07
10	22.70	0.00	?UNDEF	?UNDEF	18.30	0.00	095.92	095.28	137.40	0.00	097.13	096.45	096.67	097.03
11	15.10	0.00	?UNDEF	?UNDEF	17.70	0.00	095.80	095.28	131.30	0.00	097.16	096.47	096.65	097.05
12	13.30	0.00	?UNDEF	?UNDEF	12.70	0.00	095.87	096.28	125.90	0.00	097.22	096.64	096.82	097.09
13	18.40	0.00	?UNDEF	?UNDEF	10.40	0.00	096.02	096.32	119.20	0.00	097.28	096.70	096.88	097.27
14	13.10	0.00	?UNDEF	?UNDEF	10.70	0.00	096.04	095.93	109.90	0.00	097.40	096.77	096.93	097.68
15	13.10	0.00	?UNDEF	?UNDEF	9.10	0.00	096.03	095.65	109.40	0.00	097.41	096.72	096.89	097.68
16	13.20	0.00	?UNDEF	?UNDEF	9.10	0.00	095.96	095.59	122.00	0.00	097.45	096.75	096.80	097.86
17	13.00	0.00	?UNDEF	?UNDEF	9.20	0.00	095.96	095.59	125.00	0.00	097.45	096.90	096.79	097.87
18	13.10	0.00	?UNDEF	?UNDEF	9.10	0.00	096.04	095.59	129.50	0.00	097.49	096.93	096.84	097.74
19	14.60	0.00	?UNDEF	?UNDEF	9.10	0.00	095.97	095.44	131.40	0.00	097.46	096.90	096.80	097.71
20	13.10	0.00	?UNDEF	?UNDEF	9.10	0.00	095.77	095.25	131.00	0.00	097.55	096.87	096.88	097.56
21	13.00	0.00	?UNDEF	?UNDEF	9.10	0.00	095.76	095.38	141.10	0.00	097.39	096.88	096.90	097.57
22	14.70	0.00	?UNDEF	?UNDEF	9.10	0.00	095.87	096.23	140.60	0.00	097.48	096.95	096.98	097.61
23	13.00	0.00	?UNDEF	?UNDEF	10.70	0.00	095.89	095.88	138.40	0.00	097.49	096.93	097.00	097.62
24	11.70	0.00	?UNDEF	?UNDEF	9.10	0.00	095.89	095.49	140.70	0.00	097.53	097.13	096.92	097.62

16 JAN 2001

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

16 JAN 2001

HOUR	DWRSHAK			STREAMFLOW			LOWER GRANITE			LITTLE GOOSE				
	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.
1	1.30	0.00	106.91	?UNDEF	?UNDEF	?UNDEF	16.70	0.00	099.51	099.47	15.90	0.00	?UNDEF	?UNDEF
2	1.30	0.00	106.78	?UNDEF	?UNDEF	?UNDEF	18.70	0.00	099.54	099.46	13.70	0.00	?UNDEF	?UNDEF
3	1.30	0.00	106.77	?UNDEF	?UNDEF	?UNDEF	19.00	0.00	099.51	099.46	16.40	0.00	?UNDEF	?UNDEF
4	1.30	0.00	106.81	?UNDEF	?UNDEF	?UNDEF	20.10	0.00	099.40	099.43	16.60	0.00	?UNDEF	?UNDEF
5	1.30	0.00	106.75	?UNDEF	?UNDEF	?UNDEF	25.60	0.00	099.38	099.45	21.60	0.00	?UNDEF	?UNDEF
6	1.30	0.00	106.77	?UNDEF	?UNDEF	?UNDEF	23.60	0.00	099.40	099.31	25.90	0.00	?UNDEF	?UNDEF
7	1.30	0.00	106.74	?UNDEF	?UNDEF	?UNDEF	27.80	0.00	099.39	099.27	40.20	0.00	?UNDEF	?UNDEF
8	1.30	0.00	106.75	?UNDEF	?UNDEF	?UNDEF	28.60	0.00	099.39	099.27	40.40	0.00	?UNDEF	?UNDEF
9	1.30	0.00	106.71	?UNDEF	?UNDEF	?UNDEF	28.00	0.00	099.35	099.12	41.80	0.00	?UNDEF	?UNDEF
10	1.30	0.00	106.79	?UNDEF	?UNDEF	?UNDEF	28.10	0.00	099.29	099.09	35.20	0.00	?UNDEF	?UNDEF
11	1.30	0.00	107.20	?UNDEF	?UNDEF	?UNDEF	27.60	0.00	099.43	099.10	35.00	0.00	?UNDEF	?UNDEF
12	1.30	0.00	107.64	?UNDEF	?UNDEF	?UNDEF	18.30	0.00	099.51	099.17	26.60	0.00	?UNDEF	?UNDEF
13	1.30	0.00	107.83	?UNDEF	?UNDEF	?UNDEF	17.50	0.00	099.55	099.31	25.80	0.00	?UNDEF	?UNDEF
14	1.30	0.00	108.04	?UNDEF	?UNDEF	?UNDEF	17.50	0.00	099.55	099.56	25.80	0.00	?UNDEF	?UNDEF
15	1.30	0.00	108.01	?UNDEF	?UNDEF	?UNDEF	18.70	0.00	099.58	100.69	25.90	0.00	?UNDEF	?UNDEF
16	1.30	0.00	108.00	?UNDEF	?UNDEF	?UNDEF	16.60	0.00	099.38	100.25	26.40	0.00	?UNDEF	?UNDEF
17	1.30	0.00	107.73	?UNDEF	?UNDEF	?UNDEF	15.50	0.00	099.31	099.76	26.20	0.00	?UNDEF	?UNDEF
18	1.30	0.00	107.21	?UNDEF	?UNDEF	?UNDEF	15.70	0.00	099.29	099.43	26.10	0.00	?UNDEF	?UNDEF
19	1.30	0.00	107.73	?UNDEF	?UNDEF	?UNDEF	17.10	0.00	099.33	099.35	25.80	0.00	?UNDEF	?UNDEF
20	1.30	0.00	107.01	?UNDEF	?UNDEF	?UNDEF	13.40	0.00	099.27	099.60	15.80	0.00	?UNDEF	?UNDEF
21	1.30	0.00	107.05	?UNDEF	?UNDEF	?UNDEF	13.20	0.00	099.15	099.37	17.40	0.00	?UNDEF	?UNDEF
22	1.30	0.00	107.08	?UNDEF	?UNDEF	?UNDEF	12.50	0.00	099.14	099.17	14.00	0.00	?UNDEF	?UNDEF
23	1.30	0.00	107.01	?UNDEF	?UNDEF	?UNDEF	12.50	0.00	099.11	099.03	12.20	0.00	?UNDEF	?UNDEF
24	1.30	0.00	106.83	?UNDEF	?UNDEF	?UNDEF	12.70	0.00	098.94	099.00	13.80	0.00	?UNDEF	?UNDEF
HOUR	LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO	
	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB	%SAT TAILW.	TOTAL DISCH KCFS	SPILL KCFS	OR FB	GAS WA FB	%SAT TAILW.	GAS % SAT
1	13.70	0.00	?UNDEF	?UNDEF	12.80	0.00	096.12	095.59	93.30	0.00	096.76	096.79	096.56	098.00
2	13.80	0.00	?UNDEF	?UNDEF	12.70	0.00	096.24	095.56	89.80	0.00	096.73	096.74	096.54	097.85
3	13.80	0.00	?UNDEF	?UNDEF	12.90	0.00	096.09	095.56	105.10	0.00	096.72	096.74	096.65	097.81
4	14.20	0.00	?UNDEF	?UNDEF	12.80	0.00	096.10	095.46	124.60	0.00	096.74	096.74	096.68	097.85
5	20.40	0.00	?UNDEF	?UNDEF	12.90	0.00	096.14	095.43	151.70	0.00	096.72	096.90	096.68	097.74
6	20.90	0.00	?UNDEF	?UNDEF	20.40	0.00	096.07	095.58	153.40	0.00	096.74	096.92	096.82	097.74
7	39.50	0.00	?UNDEF	?UNDEF	40.20	0.00	096.06	096.07	164.20	0.00	096.85	096.88	096.82	097.58
8	40.50	0.00	?UNDEF	?UNDEF	42.30	0.00	096.06	095.67	156.90	0.00	096.86	096.92	096.81	097.58
9	147.20	0.00	?UNDEF	?UNDEF	50.20	0.00	096.02	095.64	151.20	0.00	096.82	096.97	096.73	097.39
10	47.80	0.00	?UNDEF	?UNDEF	53.60	0.00	095.89	095.51	135.10	0.00	097.98	096.95	096.86	097.39
11	50.00	0.00	?UNDEF	?UNDEF	53.90	0.00	096.01	095.51	118.90	0.00	097.33	096.96	096.97	097.48
12	50.10	0.00	?UNDEF	?UNDEF	54.30	0.00	096.05	095.70	112.30	0.00	097.25	096.75	096.75	097.54
13	36.10	0.00	?UNDEF	?UNDEF	52.20	0.00	096.07	095.73	114.20	0.00	097.28	096.74	096.94	097.71
14	34.30	0.00	?UNDEF	?UNDEF	39.60	0.00	096.06	095.70	149.20	0.00	097.29	096.76	096.80	097.81
15	34.10	0.00	?UNDEF	?UNDEF	39.70	0.00	096.04	095.69	151.80	0.00	097.54	096.77	096.78	098.36
16	34.00	0.00	?UNDEF	?UNDEF	39.10	0.00	096.01	095.50	153.50	0.00	097.38	096.70	096.71	097.91
17	34.50	0.00	?UNDEF	?UNDEF	39.00	0.00	095.81	095.80	154.60	0.00	097.32	096.62	096.54	097.71
18	29.30	0.00	?UNDEF	?UNDEF	28.40	0.00	095.89	095.48	154.80	0.00	097.21	096.69	096.71	097.75
19	28.70	0.00	?UNDEF	?UNDEF	27.00	0.00	096.04	095.36	143.20	0.00	097.24	096.72	096.59	097.63
20	15.70	0.00	?UNDEF	?UNDEF	18.00	0.00	096.00	095.35	141.20	0.00	097.24	096.67	096.58	097.66
21	15.00	0.00	?UNDEF	?UNDEF	17.70	0.00	096.02	095.37	139.90	0.00	097.29	096.70	096.65	097.49
22	13.20	0.00	?UNDEF	?UNDEF	12.50	0.00	096.02	095.34	137.00	0.00	097.38	096.58	096.62	097.48
23	13.10	0.00	?UNDEF	?UNDEF	12.40	0.00	095.95	095.30	117.20	0.00	097.32	096.61	096.70	097.44
24	13.00	0.00	?UNDEF	?UNDEF	12.40	0.00	095.92	095.42	114.60	0.00	097.32	096.64	096.70	097.44